

BELL TELEPHONE LABORATORIES, INCORPORATED

MAY 1 1981

5-117

COMMON SYSTEMS
FOR USE WITH NO. 3 ESS
ARRANGED WITH 2-WIRE FEATURES
MICRO INTERPRET, MULTIPLE CROSSPOINT, AND PARITY CHECK TESTS
(CDGMI)

THE CONTENT OF THIS MATERIAL IS PROPRIETARY AND CONSTITUTES A TRADE SECRET. IT IS FURNISHED PURSUANT TO WRITTEN AGREEMENTS OR INSTRUCTIONS LIMITING THE EXTENT OF DISCLOSURE. ITS FURTHER DISCLOSURE IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF ITS OWNER, WESTERN ELECTRIC COMPANY, INCORPORATED, IS PROHIBITED.

ISSUE
02/05/81

AT&T
SPCS

PR-1C930-50
117 PAGES

PRINTED IN U.S.A.



SECTION DICTIONARY

NUMBER	NAME	MAXIMUM	ORIGIN	TYP	ADDRESS-MODIFICATION
01	CHINTERP	0000133		C	
02	CHTMSXP	0000722		C	
03	CBUSPAR	0000407		C	
04	CPOXPAR	0000430		C	
05	CPATCH	0000000		C	
06	CPATCH1	0000626		C	
07	CPATCH2	0000000		C	
08	CPATCH3	0000000		C	
09	CPATCH7	0000000		C	
0A	TFAPCH2	0000000		C	
0B	TPATCH	0000000		C	

MICRO INTERPRET, MULTIPLE CROSSPOINT, AND PARITY CHECK TESTS

PR-1C930-50

22:59:51 02/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE A1



C01

VERSION W77D OF SWAP; VERSION

OF EPL

22:59:51 2/05/81 ****

CDGMI

W77D

0013611
0013611
0013611

```

01      DBNAM  N033E13.OFF.DATABASE
02      RELNAM  N03ESS
03      GETLIB  LIBRARY, MEMBER=H0PTBL
04      GETLIB  LIBRARY, MEMBER=SYSMAC
05      GETLIB  LIBRARY, MEMBER=SYSSYM
06      GETLIB  LIBRARY, MEMBER=PATCH2
07      FIRSTPTSS
08      VERSION 3ACC, FIELD, ESS2E
09      PATCHINIT
10     N033E13.OFF.OPMS(0) DECK
11      DSQUAL  N033E13
12      LISTING  N, CRUNCH=Y, SYSOUT=N
13      #####
14      ##
15      ## UNIX ID = N03PAG
16      ##
17      #####
18      #####
19      ##
20      ## pid date      time rel
21      ##
22      ## cdgm1 1/24/81 16:38:03 7.1.1.1
23      ##
24      #####
25      VERSIONS (FACTORY, FIELD), 3ACC, INTERDATA)
26 # THIS DATA SET EDITED FOR UNIX ON 05/24/78
27      GETLIB  MEMBER=DGNMAC
28      NAME    CDGMI

```

32 ## The following is a list of the valid csects for program CDGMI

0013611
0012667
0014411
0013761

```

34  CHINTERP CSECT
35  CHTMSXCP CSECT
36  CBUSPAR CSECT
37  CPOXYPAR CSECT

```

40 ## The following csects are necessary for patching

0111432
0112562
0114107
0115073
0121236

```

42  CPATCH CSECT
43  CPATCH1 CSECT
44  CPATCH2 CSECT
45  CPATCH3 CSECT
46  CPATCH7 CSECT

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

1

22:59:51 2/05/81 ****

CDGMI

W77D

0116774

01 TFAPCH2 CSECT

0600000

03 TPATCH CSECT

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 2

E01

22:59:51 2/05/81 ****

CDGMI

W77D

0600000

```

01      BEGIN DIAG DGMI,3ACC
-001- 02 CDGMI EXTERN NMICRO
-001- 03 CDGMI EXTERN NRETRN
-001- 04 CDGMI EXTERN NZRETRN
-001- 05 CDGMI EXTERN NSTRT
-001- 06 CDGMI EXTERN NSTOP
-001- 07 CDGMI EXTERN NDISABA
-001- 08 CDGMI EXTERN NDISABB
-001- 09 CDGMI EXTERN NSTRCLK
-001- 10 CDGMI EXTERN NSTPCLK
-001- 11 CDGMI EXTERN NTCLK
-001- 12 CDGMI EXTERN NRESCLR
-001- 13 CDGMI EXTERN NZERO_ER
-001- 14 CDGMI EXTERN NPROS
-001- 15 CDGMI EXTERN NTESTSEG
-001- 16 CDGMI EXTERN NFAILTST
-001- 17 CDGMI EXTERN NTTY
-001- 18 CDGMI EXTERN NMASK
-001- 19 CDGMI EXTERN NPASSTST
-001- 20 CDGMI EXTERN NSEND
-001- 21 CDGMI EXTERN NZSEND
-001- 22 CDGMI EXTERN NADD_OFF
-001- 23 CDGMI EXTERN NADMIC
-001- 24 CDGMI EXTERN NLDHIR
-001- 25 CDGMI EXTERN NEXECUTE
-001- 26 CDGMI EXTERN NCOMPARE
-001- 27 CDGMI EXTERN NFRZ
-001- 28 CDGMI EXTERN NBEGIN
-001- 29 CDGMI EXTERN NLP_END
-001- 30 CDGMI EXTERN NSKIP
-001- 31 CDGMI EXTERN NABT
-001- 32 CDGMI EXTERN NRDMICRO
-001- 33 CDGMI EXTERN NCLRMS
-001- 34 CDGMI EXTERN NNO3CD
-001- 35 CDGMI EXTERN NNTTEST
-001- 36 CDGMI EXTERN NZKPT
-001- 37 CDGMI EXTERN NFLBITS
-001- 38 CDGMI DIRECT INTRPN03
-001- 39 CDGMI EXTERN NBDN
-001- 40 CDGMI EXTERN PASSOFF
-001- 41 CDGMI EXTERN FAILOFF
-001- 42 CDGMI EXTERN SLDNCHBF
-001- 43 CDGMI EXTERN SLDNIRLF
-001- 44 CDGMI EXTERN SMCHF
-001- 45 CDGMI EXTERN NRTNBLM
-001- 46 CDGMI EXTERN NWDTST

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 3

22:59:51 2/05/81 ****

COGMI W770

-001- 01 # THIS DIAGNOSTIC PROGRAM IS ALL OR PARTIALLY WRITTEN IN A MACRO
-001- 02 # LANGUAGE WHICH PRODUCES TABLES WHICH ARE INTERPRETED BY THE
-001- 03 # DIAGNOSTIC MONITOR PROGRAM. FOR INFORMATION REGARDING THE
-001- 04 # STRUCTURE OF THE TABLES, SEE THE SECTION OF PROGRAM COGMI (PR-1C910-01)
-001- 05 # ENTITLED "DIAGNOSTIC TABLE INTERPRETER". FOR A GENERAL DESCRIPTION
-001- 06 # OF THE DIAGNOSTIC PHILOSOPHY AND THE DETAILED REPAIR PROCEDURE,
-001- 07 # SEE THE TROUBLE LOCATION MANUAL (TLH-1C900) SECTION B.

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET COGMI ISSUE 04 PAGE 4

22:59:51 2/05/81 ****

CDGMI

W770

01 CTSD EXTERN PAGSCR

07 # LINKAGES TO OFF-LINE CODE
08 CDGNOF EXTERN MITST1
09 CDGNOF EXTERN MITST1A
10 CDGNOF EXTERN MITST2
11 CDGNOF EXTERN DOTIO
12 CDGNOF EXTERN TSTNOP

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 5

TEST 65

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *****
-001- 03 # **
-001- 04 # ** CU DIAGNOSTIC TEST NO. 65, MICROINTERPRET
-001- 05 # **
-001- 06 # *****
-001- 07 # *****

```

0013611

-001- 10 CHINTERP CSECT

-001- 13 # THIS TEST USES OFF-LINE CODE AT CSECT OMINTERP

```

0013611 01 000000 004345 000320 CDGMI -001- 17 VFD 1,0 2,0 2,1 2,0 3,3 6,NBGN
0013612 01 000001 000320 013744 EXTERN -001- 18 ADDR OMINTERP,XMINTERP

```

```

22 # SEGMENT 1
23 # A MICROINTERPRET SEQUENCE CONSISTING OF ONE MICROINSTRUCTION
24 # IS TRIED IN THE OFF-LINE PROCESSOR. THIS INSTRUCTION GATES
25 # R6==>AK. THE RESULT IS CHECKED. A FAILURE COULD INDICATE
26 # A PROBLEM IN THE CONTROL CIRCUITRY OR A PROBLEM WITH THE
27 # DEDICATED GATING PATH SIR==>MIR. IF A SINGLE BIT GATING ERROR
28 # OCCURRED, THERE SHOULD BE AN ERROR INDICATION IN THE ER FOR
29 # EITHER THE "TO" OR "FROM" FIELD BUT NOT BOTH. IF THE
30 # CONTROL CIRCUITRY FAILED, BOTH THE "TO" AND "FROM"
31 # ERROR BITS WILL BE SET OR NEITHER WILL BE SET. THE TEST
32 # IS THEN REPEATED WITH A MICROINSTRUCTION TO GATE AK==>R6.
33 # THIS MICROINSTRUCTION IS THE COMPLEMENT OF THE ONE USED
34 # ABOVE SO THAT THE SIR==>MIR PATH IS COMPLETELY CHECKED.

```

```

36 # SEGMENT 2
37 # A MICROINTERPRET SEQUENCE OF SEVERAL INSTRUCTIONS IS TRIED
38 # TO CHECK THAT THE IB IS NOT CLEARED WHILE IN THE
39 # MICROINTERPRET MODE. THE MI INSTRUCTION SHOULD REMAIN
40 # IN THIS REGISTER THROUGHOUT THE SEQUENCE.

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 6

TEST 65 SEGMENT 1

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 65 SEGMENT 1
-001- 04 # *
-001- 05 # *****

```

```

0013614 01 000003 000100 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,0(1) 6,NTESTSEG

```

```

11 # A MICROINTERPRET SEQUENCE CONSISTING OF ONE MICROINSTRUCTION
12 # IS TRIED IN THE OFF-LINE PROCESSOR. THIS INSTRUCTION GATES
13 # R6==>AK. THE RESULT IS CHECKED. A FAILURE COULD INDICATE
14 # A PROBLEM IN THE CONTROL CIRCUITRY OR A PROBLEM WITH THE
15 # DEDICATED GATING PATH SIR==MIR. IF A SINGLE BIT GATING ERROR
16 # OCCURRED, THERE SHOULD BE AN ERROR INDICATION IN THE ER FOR
17 # EITHER THE "TO" OR "FROM" FIELD BUT NOT BOTH. IF THE
18 # CONTROL CIRCUITRY FAILED, BOTH THE "TO" AND "FROM"
19 # ERROR BITS WILL BE SET OR NEITHER WILL BE SET. THE TEST
20 # IS THEN REPEATED WITH A MICROINSTRUCTION TO GATE AK==>R6.
21 # THIS MICROINSTRUCTION IS THE COMPLEMENT OF THE ONE USED
22 # ABOVE SO THAT THE SIR==MIR PATH IS COMPLETELY CHECKED.

```

```

-001- 24 # SEND
-001- 25 # SEND 0(125252) TO OFF-LINE GENERAL REGISTER 6.
-001- 26 # PARITY IS NORMAL.
0013615 01 000004 057606 ----- CDGNM -001- 27 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0013616 01 000005 061400 ----- -001- 28 VFD 8,R6XT 2,0 2,0(0)
0013617 01 000006 125252 ----- -001- 29 VFD 16,0(125252)

```

```

-001- 31 # ZERO ER
-001- 32 # ZERO THE OFF-LINE ER.
0013620 01 000007 000012 ----- CDGNM -001- 33 VFD 1,0 2,0 7,0 6,NZERO_ER

```

```

-001- 35 # ADD OFF
-001- 36 # START OFF-LINE PROCESSOR AT ADDRESS MITST1.
0013621 01 000010 040022 000000 CDGNM -001- 37 VFD 1,0 2,2 7,0 6,NADD_OFF
0013622 01 000011 000000 013744 CDGNM -001- 38 ADDR MITST1

```

```

-001- 40 # STOP OFF
-001- 41 # SET STOP BIT IN OFF-LINE CU.
0013624 01 000013 017627 ----- CDGNM -001- 42 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

```

```

-001- 44 # MICRO
-001- 45 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 46 # TO FIELD = MCHBXT FROM FIELD = AKXF
0013625 01 000014 020005 ----- CDGNM -001- 47 VFD 1,0 2,1 7,0 6,NMICRO
0013625 01 000015 114634 ----- -001- 48 VFD 8,MCHBXT 8,AKXF

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 7

TEST 65 SEGMENT 1

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # RETRN
-001- 02 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0013627 01 000016 007710 ----- CDGNM -001- 03 # VFD 1,0 2,0 7,B(0111111) 6,NRETRN

-001- 05 # COMPARE
-001- 06 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0125252).
-001- 07 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013630 01 000017 050014 ----- CDGNM -001- 08 # VFD 1,LPINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013631 01 000020 000000 125252 -001- 09 # ADDR 0(0125252)

0013633 -001- 11 # # RESOLVE THE TYPE OF ERROR
-001- 12 # NO3_CODE
-001- 13 # PROCESS 3ACC CODED ROUTINE AT ADDRESS RESMI.
0013633 01 000022 040043 000000 CDGNM -001- 14 # VFD 1,0 2,2 7,0 6,NN03CD
0013634 01 000023 000000 013705 0013705 -001- 15 # ADDR RESMI

-001- 17 # MICRO
-001- 18 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 19 # MISCELLANEOUS CROSSPOINT ZBRX
0013636 01 000025 020005 ----- CDGNM -001- 20 # VFD 1,0 2,1 7,0 6,NMICRO
0013637 01 000026 025712 ----- -001- 21 # VFD 16,ZBRX

-001- 23 # MICRO
-001- 24 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 25 # TO FIELD = R6XT FROM FIELD = BRXF
0013640 01 000027 020005 ----- CDGNM -001- 26 # VFD 1,0 2,1 7,0 6,NMICRO
0013641 01 000030 061742 ----- -001- 27 # VFD 8,R6XT 8,BRXF

-001- 29 # ZERO_ER
-001- 30 # ZERO THE OFF-LINE ER.
0013642 01 000031 000012 ----- CDGNM -001- 31 # VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 33 # ADD_OFF
-001- 34 # START OFF-LINE PROCESSOR AT ADDRESS MITST1A.
0013643 01 000032 040022 000000 CDGNM -001- 35 # VFD 1,0 2,2 7,0 6,NADD_OFF
0013644 01 000033 000000 013747 CDGNOF -001- 36 # ADDR MITST1A

-001- 38 # STOP_OFF
-001- 39 # SET STOP BIT IN OFF-LINE CU.
0013646 01 000035 017627 ----- CDGNM -001- 40 # VFD 1,0 2,0 7,B(1111110) 6,NSTOP

-001- 42 # RETRN
-001- 43 # RETURN OFF-LINE GENERAL REGISTER R6 TO ON-LINE MCHB.
0013647 01 000036 037611 ----- CDGNM -001- 44 # VFD 1,0 2,1 7,B(1111110) 6,NZRETRN
0013650 01 000037 114543 ----- -001- 45 # VFD 8,MCHBXT 8,R6XF

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

8

TEST 65 SEGMENT 1

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

CDGMI

M770

0013651 01 000040 050014 -----	CDGNM	-001- 01 #	COMPARE
0013652 01 000041 000000 125252		-001- 02 #	COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0125252).
		-001- 03 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
		-001- 04	VFD 1,LINDEX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
		-001- 05	ADDR 0(0125252)
0013654 01 000043 040043 000000 CDGNM		-001- 07 #	NO3 CODE
0013655 01 000044 000000 013705 00137375		-001- 08 #	PROCESS 3ACC CODED ROUTINE AT ADDRESS RESMI.
		-001- 09	VFD 1,0 2,2 7,0 6,NN03CD
		-001- 10	ADDR RESMI
0013657 01 000046 040043 000000 CDGNM		-001- 12 #	NO3 CODE
0013660 01 000047 000000 013737		-001- 13 #	PROCESS 3ACC CODED ROUTINE AT ADDRESS G0SEG2.
		-001- 14	VFD 1,0 2,2 7,0 6,NN03CD
		-001- 15	ADDR G0SEG2
0013662 01 000051 020017 -----	CDGNM	-001- 17 #	FAILTST
0013663 01 000052 000001 -----		-001- 18 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLMICNTL.
		-001- 19 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
		-001- 20	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
		-001- 21	VFD 16,FLMICNTL
0013664 01 000053 020017 -----	CDGNM	-001- 23 #	FAILTST
0013665 01 000054 000002 -----		-001- 24 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLWIGTTO.
		-001- 25 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
		-001- 26	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
		-001- 27	VFD 16,FLWIGTTO
0013666 01 000055 020017 -----	CDGNM	-001- 29 #	FAILTST
0013667 01 000056 000003 -----		-001- 30 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLWIGTFM.
		-001- 31 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
		-001- 32	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
		-001- 33	VFD 16,FLWIGTFM

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 9

TEST 65 SEGMENT 1

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

CDGMI

W77D

0013670

01 SEG2

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 10

TEST 65 SEGMENT 2

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

CDGMI

W770

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 65 SEGMENT 2
-001- 04 # *
-001- 05 # *****

0013670 01 000057 000200 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,0(2) 6,NTESTSEG

11 # A MICROINTERPRET SEQUENCE OF SEVERAL INSTRUCTIONS IS TRIED
12 # TO CHECK THAT THE IB IS NOT CLEARED WHILE IN THE
13 # MICROINTERPRET MODE. THE MI INSTRUCTION SHOULD REMAIN
14 # IN THIS REGISTER THROUGHOUT THE SEQUENCE.

-001- 16 # ADD OFF
-001- 17 # START OFF-LINE PROCESSOR AT ADDRESS MITST2.
0013671 01 000060 040022 000000 CDGNM -001- 18 VFD 1,0 2,2 7,0 6,NADD_OFF
0013672 01 000061 000000 013752 CDGNM -001- 19 ADDR MITST2

-001- 21 # STOP OFF
-001- 22 # SET STOP BIT IN OFF-LINE CU.
0013674 01 000063 017627 ----- CDGNM -001- 23 VFD 1,0 2,0 7,0(1111110) 6,NSTOP

-001- 25 # RETRN
-001- 26 # RETURN OFF-LINE GENERAL REGISTER R0 TO ON-LINE MCHB.
0013675 01 000064 037611 ----- CDGNM -001- 27 VFD 1,0 2,1 7,0(1111110) 6,NZRETRN
0013676 01 000065 114523 ----- -001- 28 VFD 8,MCHBXT 8,ROXF

-001- 30 # COMPARE
-001- 31 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0013400).
-001- 32 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013677 01 000066 050014 ----- CDGNM -001- 33 VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0013700 01 000067 000000 013400 -001- 34 ADDR 0(0013400)

-001- 36 # FAILTST
-001- 37 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCNTIB.
0013702 01 000071 020017 ----- CDGNM -001- 38 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013703 01 000072 000004 ----- -001- 39 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 40 VFD 16,FLCNTIB

-001- 42 # PASSTST
-001- 43 # GO TO DIAGNOSTIC MONITOR PASS BRANCH.
0013704 01 000073 000021 ----- CDGNM -001- 44 VFD 1,0 2,0 7,0 6,NPASSTST

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 11

TEST 65 SEGMENT 2

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

C06H1

W77D

0013705

01 RESMI
 02 # 3ACC CODED ROUTINE TO DETERMINE THE TYPE OF ERROR
 03 # IN THE OPERATION OF MICROINTERPRET. THERE ARE FOUR CASES
 04 # 1. THERE IS AN ERROR IN BOTH THE "TO" AND "FROM" FIELDS
 05 # 2. THERE ARE NO ERRORS INDICATED
 06 # 3. THERE IS AN ERROR IN THE "TO" FIELD BUT NOT IN THE "FROM" FIELD
 07 # 4. THERE IS AN ERROR IN THE "FROM" FIELD BUT NOT IN THE "TO" TO
 08 # THE FIRST TWO CASES INDICATE AN ERROR IN THE MICROINTERPRET
 09 # CONTROL CIRCUITRY AND THE LAST TWO CASES REPRESENT A PROBABLE
 10 # GATING ERROR IN THE BAD FIELD

0013705			12	LMCH	RTNER	#	RETURN THE ERROR REGISTER
0013705	01	000074	103401	000213	-001-	13	LI
0013707					-001-	14	CALL
0013707	01	000076	037020	111077	-002-	15	BSA
0013711	01	000100	112403	-----		16	UNPK
0013712	01	000101	024060	-----		17	TBN
0013713	01	000102	054010	-----	0013723	18	BC
0013714						19	TOER
0013714	01	000103	324061	-----		20	TBN
0013715	01	000104	054015	-----	0013732	21	BC
0013716						22	20R0
0013716						24	RTN_TBL
0013716	01	000105	171400	-----	-001-	25	GA
0013717	01	000106	031000	013662	-001-	26	LAL
0013721	01	000110	037000	011162	C06H1	-001-	27
							BL
0013723						29	TOER
0013723	01	000112	124061	-----		30	TBN
0013724	01	000113	054772	-----	0013716	31	BC
0013725						32	B0T0FLD
0013725						34	RTN_TBL
0013725	01	000114	171400	-----	-001-	35	GA
0013726	01	000115	031000	013664	-001-	36	LAL
0013730	01	000117	037000	011162	C06H1	-001-	37
							BL
0013732						39	BDFRMFLD
0013732						40	RTN_TBL
0013732	01	000121	171400	-----	-001-	41	GA
0013733	01	000122	031000	013666	-001-	42	LAL
0013735	01	000124	037000	011162	C06H1	-001-	43
							BL

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

C06H1

ISSUE 04

PAGE 12

A03

TEST 65 SEGMENT 2

22:59:51 2/05/81 ****

MICROINTERPRET DIAGNOSTIC TEST

CDGMI W77D

0013737

01 G0SEG2

02 # 3ACC CODED ROUTINE TO TRANSFER CONTROL TO SEGMENT 2

0013737

04

RTN_TBL SEG2

0013737 01 000126 171400 -----

-001- 05

6A

0013740 01 000127 031000 013670 0013670

-001- 06

LAL

RO,SEG2,RAO

0013742 01 000131 037000 011162 CDGMI

-001- 07

BL

INTRPN03

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 13

TEST 66

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *****
-001- 03 # **
-001- 04 # ** CU DIAGNOSTIC TEST NO. 66, MULTIPLE_MISCELLANEOUS_XPOINTS **
-001- 05 # **
-001- 06 # *****
-001- 07 # *****

```

0012667

-001- 10 CMTMSCXP CSECT

0012667 02 000000 000145 ----- CDGMH

-001- 14

VFD

1,0 2,0 2,0 3,1 6,NBGN

```

18 # SEGMENT 1
19 # MULTIPLE MISCELLANEOUS CROSSPOINTS CAN RESULT FROM OPENED
20 # LEADS SUCH THAT A MISCELLANEOUS CROSSPOINT FIRES WHEN ONLY
21 # THREE OF ITS FOUR DECODER SUB-FIELDS ARE PRESENT.
22 # A SET OF INITIAL CONDITIONS IS SET UP AND THEN
23 # A SERIES OF CROSSPOINTS WITH ONE SUB-FIELD=0 IS
24 # TRIED. THE INITIAL CONDITIONS ARE THEN CHECKED.
25 # THEY SHOULD NOT HAVE CHANGED.

27 # SEGMENT 2
28 # A SECOND SET OF INITIAL CONDITIONS IS USED AS IN
29 # SEGMENT 1 IN ORDER TO HANDLE CONTRADICTIONARY CASES (DS=0
30 # IN SEGMENT 1, DS=1 IN SEGMENT 2)

32 # SEGMENT 3
33 # SOME CROSSPOINTS WHICH WERE NOT PICKED UP IN EARLIER SEGMENTS
34 # ARE TRIED

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04

PAGE 14

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 66 SEGMENT 1
-001- 04 # *
-001- 05 # *****

```

```

0012670 02 000001 000100 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,D(1) 6,NTESTSEG

```

```

11 # MULTIPLE MISCELLANEOUS CROSSPOINTS CAN RESULT FROM OPENED
12 # LEADS SUCH THAT A MISCELLANEOUS CROSSPOINT FIRES WHEN ONLY
13 # THREE OF ITS FOUR DECODER SUB-FIELDS ARE PRESENT.
14 # A SET OF INITIAL CONDITIONS IS SET UP AND THEN
15 # A SERIES OF CROSSPOINTS WITH ONE SUB-FIELD=0 IS
16 # TRIED. THE INITIAL CONDITIONS ARE THEN CHECKED.
17 # THEY SHOULD NOT HAVE CHANGED.

```

```

-001- 23 # SEND
-001- 24 # SEND 0(0000200) TO OFF-LINE DUPLICATE B REGISTERS.
-001- 25 # PARITY IS NORMAL.
0012671 02 000002 056706 ----- CDGMI -001- 26 VFD 1,0 2,2 7,B(1110111) 6,NSEND
0012672 02 000003 000000 000200 -001- 27 ADDR 0(0000200)

```

```

-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0012674 02 000005 020005 ----- CDGMI -001- 31 # MISCELLANEOUS CROSSPOINT BRXMSX
0012675 02 000006 145312 ----- -001- 32 VFD 1,0 2,1 7,D 6,NMICRO
-001- 33 VFD 16,BRMSX

```

```

-001- 35 # SEND
-001- 36 # SEND 0(0125252) TO OFF-LINE DUPLICATE A REGISTERS.
-001- 37 # PARITY IS NORMAL.
0012676 02 000007 055706 ----- CDGMI -001- 38 VFD 1,0 2,2 7,B(1101111) 6,NSEND
0012677 02 000010 000000 125252 -001- 39 ADDR 0(0125252)

```

```

-001- 41 # SEND
-001- 42 # SEND 0(0011064) TO OFF-LINE DUPLICATE B REGISTERS.
-001- 43 # PARITY IS NORMAL.
0012701 02 000012 056706 ----- CDGMI -001- 44 VFD 1,0 2,2 7,B(1110111) 6,NSEND
0012702 02 000013 000000 011064 -001- 45 ADDR 0(0011064)

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 15

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 # SEND
-001- 02 # SEND 0(000) TO OFF-LINE DUPLICATE FUNCTION REGISTERS.
-001- 03 # PARITY IS NORMAL.
0012704 02 000015 057506 ----- CDGNI
0012705 02 000016 000000 000000 -001- 04 # VFD 1,0 2,2 7,B(11111101) 6,NSEND
-001- 05 # ADDR 0(0000000)

-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0012707 02 000020 020005 ----- CDGNI
0012710 02 000021 031742 ----- -001- 09 # TO FIELD = CRXT FROM FIELD = BRXF
-001- 10 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 11 # VFD 8,CRXT 8,BRXF

-001- 13 # SEND
-001- 14 # SEND 0(00000004) TO OFF-LINE MCHB.
-001- 15 # PARITY IS NORMAL.
0012711 02 000022 047706 ----- CDGNI
0012712 02 000023 000000 000004 -001- 16 # VFD 1,0 2,2 7,B(0111111) 6,NSEND
-001- 17 # ADDR 0(00000004)

-001- 19 # MICRO
-001- 20 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0012714 02 000025 020005 ----- CDGNI
0012715 02 000026 107231 ----- -001- 21 # TO FIELD = SS_RXT FROM FIELD = MCHBXF
-001- 22 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 23 # VFD 8,SS_RXT 8,MCHBXF

-001- 25 # SEND
-001- 26 # SEND 0(0177777) TO OFF-LINE MCHB.
-001- 27 # PARITY IS NORMAL.
0012716 02 000027 047706 ----- CDGNI
0012717 02 000030 000000 177777 -001- 28 # VFD 1,0 2,2 7,B(0111111) 6,NSEND
-001- 29 # ADDR 0(0177777)

-001- 31 # MICRO
-001- 32 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0012721 02 000032 020005 ----- CDGNI
0012722 02 000033 034631 ----- -001- 33 # TO FIELD = IS_SXT FROM FIELD = MCHBXF
-001- 34 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 35 # VFD 8,IS_SXT 8,MCHBXF

-001- 37 # SEND
-001- 38 # SEND 0(0000000) TO OFF-LINE MCHB.
-001- 39 # PARITY IS NORMAL.
0012723 02 000034 047706 ----- CDGNI
0012724 02 000035 000000 000000 -001- 40 # VFD 1,0 2,2 7,B(0111111) 6,NSEND
-001- 41 # ADDR 0(0000000)

-001- 43 # MICRO
-001- 44 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0012726 02 000037 020005 ----- CDGNI
0012727 02 000040 103631 ----- -001- 45 # TO FIELD = IMXT FROM FIELD = MCHBXF
-001- 46 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 47 # VFD 8,IMXT 8,MCHBXF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 16

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGM1

W770

0012730 02 000041 020005	-----	CDGM1	-001- 01 #	MICRO
0012731 02 000042 036330	-----		-001- 02 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
			-001- 03 #	MISCELLANEOUS CROSSPOINT SOFFX
			-001- 04	VFD 1,0 2,1 7,0 6,NMICRO
			-001- 05	VFD 16,SOFFX
0012732 02 000043 020005	-----	CDGM1	-001- 07 #	MICRO
0012733 02 000044 036071	-----		-001- 08 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
			-001- 09 #	MISCELLANEOUS CROSSPOINT SCFX
			-001- 10	VFD 1,0 2,1 7,0 6,NMICRO
			-001- 11	VFD 16,SCFX
0012734 02 000045 020005	-----	CDGM1	-001- 13 #	MICRO
0012735 02 000046 146072	-----		-001- 14 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
			-001- 15 #	MISCELLANEOUS CROSSPOINT ZDSX
			-001- 16	VFD 1,0 2,1 7,0 6,NMICRO
			-001- 17	VFD 16,ZDSX
0012736 02 000047 020005	-----	CDGM1	-001- 19 #	MICRO
0012737 02 000050 145330	-----		-001- 20 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
			-001- 21 #	MISCELLANEOUS CROSSPOINT ZIX
			-001- 22	VFD 1,0 2,1 7,0 6,NMICRO
			-001- 23	VFD 16,ZIX
0012740 02 000051 020005	-----	CDGM1	-001- 25 #	MICRO
0012741 02 000052 015472	-----		-001- 26 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
			-001- 27 #	MISCELLANEOUS CROSSPOINT ZDRX
			-001- 28	VFD 1,0 2,1 7,0 6,NMICRO
			-001- 29	VFD 16,ZDRX
0012742 02 000053 020005	-----	CDGM1	-001- 31 #	MICRO
0012743 02 000054 145072	-----		-001- 32 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
			-001- 33 #	MISCELLANEOUS CROSSPOINT ZTR1X
			-001- 34	VFD 1,0 2,1 7,0 6,NMICRO
			-001- 35	VFD 16,ZTR1X
0012744 02 000055 020005	-----	CDGM1	-001- 37 #	MICRO
0012745 02 000056 144472	-----		-001- 38 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
			-001- 39 #	MISCELLANEOUS CROSSPOINT ZTR2X
			-001- 40	VFD 1,0 2,1 7,0 6,NMICRO
			-001- 41	VFD 16,ZTR2X
0012746 02 000057 020024	-----	CDGM1	-001- 43 #	LOAD_MIRH
0012747 02 000060 007777	-----		-001- 44 #	LOAD THE HIGH BITS OF THE OFF-LINE MIR WITH 0(007777).
			-001- 45	VFD 1,0 2,1 7,0 6,NLDMIR
			-001- 46	VFD 16,0(007777)

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGM1

ISSUE 04

PAGE

17

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # SEND
-001- 02 # SEND 0(016017) TO OFF-LINE GENERAL REGISTER 9.
-001- 03 # PARITY IS NORMAL.
0012750 02 000061 057606 ----- CDGMI -001- 04 VFD 1,0 2,2 7,B(11111110) 6,NSEND
0012751 02 000062 064400 ----- -001- 05 VFD 8,R10XT 2,0 2,0(0)
0012752 02 000063 016017 ----- -001- 06 VFD 16,0(016017)

0012753 08 # CHANNEL 0, NO SUBCHANNEL, WORST CASE COMMAND FIELD

-001- 10 # MICRO
-001- 11 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0012753 02 000064 020005 ----- CDGMI -001- 12 MISCELLANEOUS CROSSPOINT MD4STCHX
0012754 02 000065 074066 ----- -001- 13 VFD 1,0 2,1 7,0 6,NMICRO
-001- 14 VFD 16,MD4STCHX

-001- 16 # MICRO
-001- 17 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 18 # MISCELLANEOUS CROSSPOINT MD0IDCHX
0012755 02 000066 020005 ----- CDGMI -001- 19 VFD 1,0 2,1 7,0 6,NMICRO
0012756 02 000067 164066 ----- -001- 20 VFD 16,MD0IDCHX

-001- 22 # SEND
-001- 23 # SEND 0(000000) TO OFF-LINE GENERAL REGISTER 10.
-001- 24 # PARITY IS NORMAL.
0012757 02 000070 057606 ----- CDGMI -001- 25 VFD 1,0 2,2 7,B(11111110) 6,NSEND
0012760 02 000071 065000 ----- -001- 26 VFD 8,R10XT 2,0 2,0(0)
0012761 02 000072 000000 ----- -001- 27 VFD 16,0(000000)

-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0012762 02 000073 020005 ----- CDGMI -001- 31 MISCELLANEOUS CROSSPOINT MD6RAIOX
0012763 02 000074 074072 ----- -001- 32 VFD 1,0 2,1 7,0 6,NMICRO
-001- 33 VFD 16,MD6RAIOX

-001- 35 # SEND
-001- 36 # SEND 0(177777) TO OFF-LINE GENERAL REGISTER 10.
-001- 37 # PARITY IS NORMAL.
0012764 02 000075 057606 ----- CDGMI -001- 38 VFD 1,0 2,2 7,B(11111110) 6,NSEND
0012765 02 000076 065000 ----- -001- 39 VFD 8,R10XT 2,0 2,0(0)
0012766 02 000077 177777 ----- -001- 40 VFD 16,0(177777)

-001- 42 # MICRO
-001- 43 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 44 # TO FIELD = R11XT FROM FIELD = R10XF
0012767 02 000100 020005 ----- CDGMI -001- 45 VFD 1,0 2,1 7,0 6,NMICRO
0012770 02 000101 066152 ----- -001- 46 VFD 8,R11XT 8,R10XF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 18

22:59:51 2/05/81 ****

TEST 66 SEGMENT 1

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # MISCELLANEOUS CROSSPOINT IERX
0012771 02 000102 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0012772 02 000103 025750 ----- -001- 03 VFD 16,ZERX

-001- 07 # SEND
-001- 08 # SEND 0(0004000) TO OFF-LINE MCHB.
-001- 09 # PARITY IS NORMAL.
0012773 02 000104 047706 ----- CDGMI VFD 1,0 2,2 7,B(0111111) 6,NSEND
0012774 02 000105 000000 004000 -001- 10 ADDR 0(0004000)
-001- 11

-001- 13 # MICRO
-001- 14 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 15 # TO FIELD = SS_SXT FROM FIELD = MCHB_XF
0012776 02 000107 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0012777 02 000110 105631 ----- -001- 16 VFD 8,SS_SXT 8,MCHB_XF
-001- 17

-001- 19 # SEND
-001- 20 # SEND 0(0125715) TO OFF-LINE MCHB.
-001- 21 # PARITY IS NORMAL.
0013000 02 000111 047706 ----- CDGMI VFD 1,0 2,2 7,B(0111111) 6,NSEND
0013001 02 000112 000000 125715 -001- 22 ADDR 0(0125715)
-001- 23

-001- 25 # MICRO
-001- 26 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 27 # TO FIELD = DBXT FROM FIELD = MCHB_XF
0013003 02 000114 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013004 02 000115 124631 ----- -001- 28 VFD 8,DBXT 8,MCHB_XF
-001- 29

31 # LOAD STOP ADDRESS BUT STOP FLOP
CLEARED

-001- 33 # LOAD_MAR
-001- 34 # LOAD AND FREEZE THE OFF-LINE MAR WITH 0(000377).
0013005 02 000116 020033 ----- CDGMI VFD 1,0 2,1 7,0 6,NFRZ
0013006 02 000117 000377 ----- -001- 36 VFD 16,0(000377)

```

43 # INITIAL CONDITIONS HAVE BEEN SET UP. NOW FIRE ALL PARTIAL
 44 # MISCELLANEOUS CROSSPOINTS

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04

PAGE

19

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

0013007 02 000120 005401 ----- CDGMI
 -001- 01 # LP_BEGIN
 -001- 02 # BEGIN 44 LOOPS.
 -001- 03 MISCLP1 VFD 1,0 2,0 7,0(44) 6,NBEGIN

-001- 06 # MICRO
 -001- 07 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
 0013010 02 000121 120005 ----- CDGMI VFD 1,1 2,1 7,0 6,MICRO
 0013011 02 000122 023760 ----- VFD 8,0(47) 8,0(360)
 0013012 02 000123 025760 ----- VFD 8,0(53) 8,0(360) # LOOP 2
 0013013 02 000124 026760 ----- VFD 8,0(55) 8,0(360) # LOOP 3
 0013014 02 000125 016760 ----- VFD 8,0(35) 8,0(360) # LOOP 4
 0013015 02 000126 143460 ----- VFD 8,0(330) 8,0(360) # LOOP 5
 0013016 02 000127 134360 ----- VFD 8,0(270) 8,0(360) # LOOP 6
 0013017 02 000130 074360 ----- VFD 8,0(170) 8,0(360) # LOOP 7
 0013020 02 000131 164360 ----- VFD 8,0(350) 8,0(360) # LOOP 8
 0013021 02 000132 035360 ----- VFD 8,0(72) 8,0(360) # LOOP 9
 0013022 02 000133 056360 ----- VFD 8,0(74) 8,0(360) # LOOP 10
 0013023 02 000134 146360 ----- VFD 8,0(314) 8,0(360) # LOOP 11
 0013024 02 000135 145360 ----- VFD 8,0(312) 8,0(360) # LOOP 12
 0013025 02 000136 144760 ----- VFD 8,0(311) 8,0(360) # LOOP 13
 0013026 02 000137 015760 ----- VFD 8,0(33) 8,0(360) # LOOP 14
 0013027 02 000140 023417 ----- VFD 8,0(47) 8,0(17) # LOOP 15
 0013030 02 000141 025417 ----- VFD 8,0(53) 8,0(17) # LOOP 16
 0013031 02 000142 026417 ----- VFD 8,0(55) 8,0(17) # LOOP 17
 0013032 02 000143 016417 ----- VFD 8,0(35) 8,0(17) # LOOP 18
 0013033 02 000144 154017 ----- VFD 8,0(330) 8,0(17) # LOOP 19
 0013034 02 000145 134017 ----- VFD 8,0(270) 8,0(17) # LOOP 20
 0013035 02 000146 074017 ----- VFD 8,0(170) 8,0(17) # LOOP 21
 0013036 02 000147 164017 ----- VFD 8,0(350) 8,0(17) # LOOP 22
 0013037 02 000150 035017 ----- VFD 8,0(72) 8,0(17) # LOOP 23
 0013040 02 000151 036017 ----- VFD 8,0(74) 8,0(17) # LOOP 24
 0013041 02 000152 146017 ----- VFD 8,0(314) 8,0(17) # LOOP 25
 0013042 02 000153 145017 ----- VFD 8,0(312) 8,0(17) # LOOP 26
 0013043 02 000154 144417 ----- VFD 8,0(311) 8,0(17) # LOOP 27
 0013044 02 000155 015417 ----- VFD 8,0(33) 8,0(17) # LOOP 28
 0013045 02 000156 170330 ----- VFD 8,0(360) 8,0(330) # LOOP 29
 0013046 02 000157 170330 ----- VFD 8,0(360) 8,0(350) # LOOP 30
 0013047 02 000160 170066 ----- VFD 8,0(360) 8,0(66) # LOOP 31
 0013050 02 000161 170071 ----- VFD 8,0(360) 8,0(71) # LOOP 32
 0013051 02 000162 170072 ----- VFD 8,0(360) 8,0(72) # LOOP 33
 0013052 02 000163 170074 ----- VFD 8,0(360) 8,0(74) # LOOP 34
 0013053 02 000164 170311 ----- VFD 8,0(360) 8,0(311) # LOOP 35
 0013054 02 000165 170312 ----- VFD 8,0(360) 8,0(312) # LOOP 36
 0013055 02 000166 007730 ----- VFD 8,0(17) 8,0(330) # LOOP 37
 0013056 02 000167 007750 ----- VFD 8,0(17) 8,0(350) # LOOP 38
 0013057 02 000170 007466 ----- VFD 8,0(17) 8,0(66) # LOOP 39
 0013060 02 000171 007471 ----- VFD 8,0(17) 8,0(71) # LOOP 40
 0013061 02 000172 007472 ----- VFD 8,0(17) 8,0(72) # LOOP 41

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 20

TEST 66 SEGMENT 1

2:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI W77D

```

0013062 02 000173 007474 ----- -001- 01 VFD 8,0(17) 8,0(74) # LOOP 42
0013063 02 000174 007711 ----- -001- 02 VFD 8,0(17) 8,0(311) # LOOP 43
0013064 02 000175 007712 ----- -001- 03 VFD 8,0(17) 8,0(312) # LOOP 44

```

```

-001- 06 # LP_END
-001- 07 # TERMINATE LOOP.
0013065 02 000176 040002 000000 CDGMI VFD 1,0 2,2 7,0 6,NLP_END
0013066 02 000177 000000 013007 0013007 -001- 09 ADDR LPSTART

```

12 # CHECK RESULTS

```

-001- 16 # RETRN
-001- 17 # RETURN OFF-LINE MCS TO ON-LINE MCHB.
0013070 02 000201 017311 ----- CDGMI VFD 1,0 2,0 7,B(1111011) 6,N2RETRN
-001- 18

```

```

-001- 20 # MASK
-001- 21 # MASK CONTENTS OF ON-LINE MCHB WITH 0(0177777).
0013071 02 000202 040013 ----- CDGMI VFD 1,0 2,2 7,0 6,NMASK
0013072 02 000203 000000 177777 -001- 23 ADDR 0(0177777)

```

```

-001- 25 # COMPARE
-001- 26 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0146003).
-001- 27 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013074 02 000205 050014 ----- CDGMI VFD 1,LPINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013075 02 000206 000000 146003 -001- 29 ADDR 0(0146003)

```

```

0013077 31 # CF=1,DS=0,TR1=0,TR2=0,DR=0,RV=1,I=0,F
IL=1

```

```

-001- 33 # FAILTST
-001- 34 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLNCSO.
-001- 35 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013077 02 000210 020017 ----- CDGMI VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0013100 02 000211 000001 ----- -001- 37 VFD 16,FLNCSO

```

```

-001- 39 # RETRN
-001- 40 # RETURN OFF-LINE AR COPY 0 TO ON-LINE MCHB.
0013101 02 000212 017310 ----- CDGMI VFD 1,0 2,0 7,B(1111011) 6,NRETRN
-001- 41

```

```

-001- 43 # COMPARE
-001- 44 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0125252).
-001- 45 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013102 02 000213 050014 ----- CDGMI VFD 1,LPINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013103 02 000214 000000 125252 -001- 47 ADDR 0(0125252)

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 21

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 #      FAILTST
-001- 02 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS ROTAO.
-001- 03 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013105 02 000216 020017 ----- CDGNM      -001- 04      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013106 02 000217 000002 -----      -001- 05      VFD      16,ROTAO

-001- 07 #      RETRN
-001- 08 #      RETURN OFF-LINE BR COPY 0 TO ON-LINE MCHB.
0013107 02 000220 016710 ----- CDGNM      -001- 09      VFD      1,0 2,0 7,B(1110111) 6,NRETRN

-001- 11 #      COMPARE
-001- 12 #      COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0011064).
-001- 13 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013110 02 000221 050014 ----- CDGNM      -001- 14      VFD      1,LPINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013111 02 000222 000000 011064 -----      -001- 15      ADDR      0(0011064)

-001- 17 #      FAILTST
-001- 18 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS ROTBO.
-001- 19 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013113 02 000224 020017 ----- CDGNM      -001- 20      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013114 02 000225 000003 -----      -001- 21      VFD      16,ROTBO

-001- 23 #      RETRN
-001- 24 #      RETURN OFF-LINE ER TO ON-LINE MCHB.
0013115 02 000226 013710 ----- CDGNM      -001- 25      VFD      1,0 2,0 7,B(1011111) 6,NRETRN

-001- 27 #      COMPARE
-001- 28 #      COMPARE ON-LINE MCHB BIT (S(DMLR)) TO 0.
-001- 29 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013116 02 000227 020414 ----- CDGNM      -001- 30      VFD      1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(DMLR)) 6,NCOMPARE
0013117 02 000230 000000 -----      -001- 31      VFD      15,0 1,0

-001- 33 #      FAILTST
-001- 34 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS ROT1.
-001- 35 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013120 02 000231 020017 ----- CDGNM      -001- 36      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013121 02 000232 000004 -----      -001- 37      VFD      16,ROT1

-001- 39 #      RETRN
-001- 40 #      RETURN OFF-LINE SS TO ON-LINE MCHB.
0013122 02 000233 016711 ----- CDGNM      -001- 41      VFD      1,0 2,0 7,B(1110111) 6,N2RETRN

-001- 43 #      COMPARE
-001- 44 #      COMPARE ON-LINE MCHB BIT (S(MINT)) TO 1.
-001- 45 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013123 02 000234 021314 ----- CDGNM      -001- 46      VFD      1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(MINT)) 6,NCOMPARE
0013124 02 000235 000001 -----      -001- 47      VFD      15,0 1,1

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 22

TEST 06 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 #      FAILTST
-001- 02 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLMI.
-001- 03 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013125 02 000236 020017 ----- CDGMI      -001- 04      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013126 02 000237 000005 -----              -001- 05      VFD      16,FLMI

-001- 07 #      COMPARE
-001- 08 #      COMPARE ON-LINE MCHB BIT (M(STP)) TO 0.
-001- 09 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013127 02 000240 020014 ----- CDGMI      -001- 10      VFD      1,LPINDX 2,1 1,0 1,SUCCESS 5,(M(STP)) 6,NCOMPARE
0013130 02 000241 000000 -----              -001- 11      VFD      15,0 1,0

-001- 13 #      FAILTST
-001- 14 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSTP.
-001- 15 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013131 02 000242 020017 ----- CDGMI      -001- 16      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013132 02 000243 000006 -----              -001- 17      VFD      16,FLSTP

-001- 19 #      MICRO
-001- 20 #      PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 21 #      TO FIELD = MCHBXT FROM FIELD = HMSXF
0013133 02 000244 020005 ----- CDGMI      -001- 22      VFD      1,0 2,1 7,0 6,NMICRO
0013134 02 000245 114632 -----              -001- 23      VFD      8,MCHBXT 8,HMSXF

-001- 25 #      RETRN
-001- 26 #      RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0013135 02 000246 007710 ----- CDGMI      -001- 27      VFD      1,0 2,0 7,B(0111111) 6,NRETRN

-001- 29 #      COMPARE
-001- 30 #      COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000200).
-001- 31 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013136 02 000247 050014 ----- CDGMI      -001- 32      VFD      1,LPINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013137 02 000250 000000 000200 -----              -001- 33      ADDR      0(0000200)

-001- 35 #      FAILTST
-001- 36 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBRHMS.
-001- 37 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013141 02 000252 020017 ----- CDGMI      -001- 38      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013142 02 000253 000007 -----              -001- 39      VFD      16,FLBRHMS

-001- 41 #      RETRN
-001- 42 #      RETURN OFF-LINE CR TO ON-LINE MCHB.
0013143 02 000254 015710 ----- CDGMI      -001- 43      VFD      1,0 2,0 7,B(1101111) 6,NRETRN

-001- 45 #      COMPARE
-001- 46 #      COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0011064).
-001- 47 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013144 02 000255 050014 ----- CDGMI      -001- 48      VFD      1,LPINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013145 02 000256 000000 011064 -----              -001- 49      ADDR      0(0011064)

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 23

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI W770

```

-001- 02 #   FAILTST
-001- 03 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLOML1CR.
-001- 04 #   DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013147 02 000260 020017 ----- CDGMI
0013150 02 000261 000010 -----
-001- 05 #   VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 06 #   VFD 16,FLOML1CR

-001- 08 #   RETRN
-001- 09 #   RETURN OFF-LINE GENERAL REGISTER R11 TO ON-LINE MCHB.
0013151 02 000262 037611 ----- CDGMI
0013152 02 000263 114554 -----
-001- 10 #   VFD 1,0 2,1 7,B(11111110) 6,NZRETRN
-001- 11 #   VFD 8,MCHBXT 8,R11XF

-001- 13 #   COMPARE
-001- 14 #   COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(01777777).
-001- 15 #   IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013153 02 000264 050014 ----- CDGMI
0013154 02 000265 000000 177777
-001- 16 #   VFD 1,LPIIDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
-001- 17 #   ADDR 0(01777777)

-001- 19 #   FAILTST
-001- 20 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLIDR11.
-001- 21 #   DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013156 02 000267 020017 ----- CDGMI
0013157 02 000270 000011 -----
-001- 22 #   VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 23 #   VFD 16,FLIDR11

-001- 25 #   MICRO
-001- 26 #   PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 27 #   MISCELLANEOUS CROSSPOINT IODXR11X
0013160 02 000271 020005 ----- CDGMI
0013161 02 000272 025466 -----
-001- 28 #   VFD 1,0 2,1 7,0 6,NMICRO
-001- 29 #   VFD 16,IODXR11X

-001- 31 #   RETRN
-001- 32 #   RETURN OFF-LINE GENERAL REGISTER R11 TO ON-LINE MCHB.
0013162 02 000273 037611 ----- CDGMI
0013163 02 000274 114554 -----
-001- 33 #   VFD 1,0 2,1 7,B(11111110) 6,NZRETRN
-001- 34 #   VFD 8,MCHBXT 8,R11XF

-001- 36 #   COMPARE
-001- 37 #   COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
-001- 38 #   IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013164 02 000275 050014 ----- CDGMI
0013165 02 000276 000000 000000
-001- 39 #   VFD 1,LPIIDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
-001- 40 #   ADDR 0(00000000)

-001- 42 #   FAILTST
-001- 43 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLRAIO.
-001- 44 #   DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013167 02 000300 020017 ----- CDGMI
0013170 02 000301 000012 -----
-001- 45 #   VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 46 #   VFD 16,FLRAIO

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 24

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # MISCELLANEOUS CROSSPOINT MDSEIOSX
0013171 02 000302 020005 ----- CDGMI
0013172 02 000303 074071 -----
-001- 04 VFD 1,0 2,1 7,0 6,NMICRO
-001- 05 VFD 16,MDSEIOSX

-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 09 # MISCELLANEOUS CROSSPOINT IDXXR11X
0013173 02 000304 020005 ----- CDGMI
0013174 02 000305 025466 -----
-001- 10 VFD 1,0 2,1 7,0 6,NMICRO
-001- 11 VFD 16,IDXXR11X

-001- 13 # RETRN
-001- 14 # RETURN OFF-LINE GENERAL REGISTER R11 TO ON-LINE MCHB.
-001- 15 VFD 1,0 2,1 7,B(11111110) 6,N2RETRN
0013175 02 000306 037611 ----- CDGMI
0013176 02 000307 114554 -----
-001- 16 VFD 8,MCHBXT 8,R11XF

-001- 18 # MASK
-001- 19 # MASK CONTENTS OF ON-LINE MCHB WITH 0(00000017).
-001- 20 VFD 1,0 2,2 7,0 6,NMASK
0013177 02 000310 040013 ----- CDGMI
0013200 02 000311 000000 000017 -----
-001- 21 ADDR 0(00000017)

-001- 23 # COMPARE
-001- 24 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(00000007).
-001- 25 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013202 02 000313 050014 ----- CDGMI
0013203 02 000314 000000 000007 -----
-001- 26 VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
-001- 27 ADDR 0(00000007)

-001- 29 # FAILTST
-001- 30 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCHTNMC.
-001- 31 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013205 02 000316 020017 ----- CDGMI
0013206 02 000317 000013 -----
-001- 32 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 33 VFD 16,FLCHTNMC

-001- 35 # MICRO
-001- 36 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 37 # TO FIELD = MCHBXT FROM FIELD = DBXF
0013207 02 000320 020005 ----- CDGMI
0013210 02 000321 114651 -----
-001- 38 VFD 1,0 2,1 7,0 6,NMICRO
-001- 39 VFD 8,MCHBXT 8,DBXF

-001- 41 # RETRN
-001- 42 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
-001- 43 VFD 1,0 2,0 7,B(01111111) 6,NRETRN
0013211 02 000322 007710 ----- CDGMI

-001- 45 # COMPARE
-001- 46 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0125715).
-001- 47 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013212 02 000323 050014 ----- CDGMI
0013213 02 000324 000000 125715 -----
-001- 48 VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
-001- 49 ADDR 0(0125715)

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 25

TEST 66 SEGMENT 1

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

				-001- 02 #	FAILTST
				-001- 03 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSD.
				-001- 04 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013215	02	000326	020017	-----	CDGNM
				-001- 05	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0013216	02	000327	000014	-----	
				-001- 06	VFD 16,FLSDB

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

26

TEST 66 SEGMENT 2

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 66 SEGMENT 2
-001- 04 # *
-001- 05 # *****

0013217 02 000330 000200 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,0(2) 6,NTESTSEG

11 # A SECOND SET OF INITIAL CONDITIONS IS USED AS IN
12 # SEGMENT 1 IN ORDER TO HANDLE CONTRADICTORY CASES (DS=0
13 # IN SEGMENT 1, DS=1 IN SEGMENT 2)

-001- 19 # MICRO
-001- 20 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 21 # MISCELLANEOUS CROSSPOINT ZCFX
0013220 02 000331 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013221 02 000332 036072 ----- VFD 16,ZCFX

-001- 25 # MICRO
-001- 26 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 27 # MISCELLANEOUS CROSSPOINT SDSX
0013222 02 000333 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013223 02 000334 146071 ----- VFD 16,SDSX

-001- 31 # MICRO
-001- 32 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 33 # MISCELLANEOUS CROSSPOINT SIX
0013224 02 000335 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013225 02 000336 015730 ----- VFD 16,SIX

-001- 37 # MICRO
-001- 38 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 39 # MISCELLANEOUS CROSSPOINT SDRX
0013226 02 000337 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013227 02 000340 015471 ----- VFD 16,SDRX

-001- 43 # MICRO
-001- 44 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 45 # MISCELLANEOUS CROSSPOINT STR1X
0013230 02 000341 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013231 02 000342 145071 ----- VFD 16,STR1X

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 27

TEST 66 SEGMENT 2

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # MISCELLANEOUS CROSSPOINT STRZX
0013232 02 000343 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013233 02 000344 144471 ----- CDGMI VFD 16,STRZX

-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 09 # MISCELLANEOUS CROSSPOINT ZOPFX
0013234 02 000345 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013235 02 000346 146330 ----- CDGMI VFD 16,ZOPFX

-001- 13 # MICRO
-001- 14 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 15 # MISCELLANEOUS CROSSPOINT ZBRX
0013236 02 000347 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013237 02 000350 025712 ----- CDGMI VFD 16,ZBRX

-001- 19 # MICRO
-001- 20 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 21 # TO FIELD = SIBXT FROM FIELD = BRXF
0013240 02 000351 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013241 02 000352 161342 ----- CDGMI VFD 8,SIBXT 8,BRXF

-001- 25 # MICRO
-001- 26 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 27 # MISCELLANEOUS CROSSPOINT SIBXSIR1X
0013242 02 000353 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013243 02 000354 144474 ----- CDGMI VFD 16,SIBXSIR1X

-001- 31 # MICRO
-001- 32 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 33 # TO FIELD = SIKRT FROM FIELD = BRXF
0013244 02 000355 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013245 02 000356 017342 ----- CDGMI VFD 8,SIKRT 8,BRXF

-001- 37 # MICRO
-001- 38 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 39 # TO FIELD = IBXT FROM FIELD = BRXF
0013246 02 000357 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0013247 02 000360 143342 ----- CDGMI VFD 8,IBXT 8,BRXF

-001- 43 # SEND
-001- 44 # SEND 0(0000100) TO OFF-LINE MCHB.
-001- 45 # PARITY IS 0(0).
0013250 02 000361 047707 ----- CDGMI VFD 1,0 2,2 7,8(0111111) 6,NZSEND
0013251 02 000362 000000 000100 ----- CDGMI ADDR 0(0000100),0(0)

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81

TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

28

TEST 66 SEGMENT 2

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = MSXT FROM FIELD = MCHBXF
0013253 02 000364 020005 ----- CDGMI
0013254 02 000365 106631 -----
-001- 04 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 05 # VFD 8,MSXT 8,MCHBXF

-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 09 # MISCELLANEOUS CROSSPOINT SBRK
0013255 02 000366 020005 ----- CDGMI
0013256 02 000367 023712 -----
-001- 10 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 11 # VFD 16,SBRK

-001- 13 # MICRO
-001- 14 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 15 # TO FIELD = SIBXT FROM FIELD = BRXF
0013257 02 000370 020005 ----- CDGMI
0013260 02 000371 161342 -----
-001- 16 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 17 # VFD 8,SIBXT 8,BRKF

-001- 19 # MICRO
-001- 20 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 21 # MISCELLANEOUS CROSSPOINT ENAX
0013261 02 000372 020005 ----- CDGMI
0013262 02 000373 035072 -----
-001- 22 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 23 # VFD 16,ENAX

-001- 25 # MICRO
-001- 26 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 27 # MISCELLANEOUS CROSSPOINT ENBX
0013263 02 000374 020005 ----- CDGMI
0013264 02 000375 035071 -----
-001- 28 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 29 # VFD 16,ENBX

-001- 31 # SEND
-001- 32 # SEND 0(0004000) TO OFF-LINE MCHB.
-001- 33 # PARITY IS NORMAL.
0013265 02 000376 047706 ----- CDGMI
0013266 02 000377 000000 004000
-001- 34 # VFD 1,0 2,2 7,8(0111111) 6,NSEND
-001- 35 # ADDR 0(0004000)

-001- 37 # MICRO
-001- 38 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 39 # TO FIELD = SS_RXT FROM FIELD = MCHBXF
0013270 02 000401 020005 ----- CDGMI
0013271 02 000402 107231 -----
-001- 40 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 41 # VFD 8,SS_RXT 8,MCHBXF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 29

TEST 66 SEGMENT 2

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W770

01 # INITIAL CONDITIONS HAVE BEEN SET UP. NOW FIRE ALL PARTIAL
02 # MISCELLANEOUS CROSSPOINTS

```

-001- 06 # LP_BEGIN
-001- 07 # BEGIN 44 LOOPS.
-001- 08 MISCLP2 VFD 1,0 2,0 7,0(44) 6,NBEGIN

0013272 02 000403 005401 ----- CDGNN

-001- 10 # MICRO
-001- 11 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
0013273 02 000404 120005 ----- CDGNN 1,1 2,1 7,0 6,NMICRO
0013274 02 000405 023760 ----- VFD 8,0(47) 8,0(360) # LOOP 1
0013275 02 000406 025760 ----- -001- 14 VFD 8,0(53) 8,0(360) # LOOP 2
0013276 02 000407 026760 ----- -001- 15 VFD 8,0(55) 8,0(360) # LOOP 3
0013277 02 000410 016760 ----- -001- 16 VFD 8,0(35) 8,0(360) # LOOP 4
0013300 02 000411 154360 ----- -001- 17 VFD 8,0(330) 8,0(360) # LOOP 5
0013301 02 000412 134360 ----- -001- 18 VFD 8,0(270) 8,0(360) # LOOP 6
0013302 02 000413 074360 ----- -001- 19 VFD 8,0(170) 8,0(360) # LOOP 7
0013303 02 000414 164360 ----- -001- 20 VFD 8,0(350) 8,0(360) # LOOP 8
0013304 02 000415 035360 ----- -001- 21 VFD 8,0(72) 8,0(360) # LOOP 9
0013305 02 000416 036360 ----- -001- 22 VFD 8,0(74) 8,0(360) # LOOP 10
0013306 02 000417 146360 ----- -001- 23 VFD 8,0(514) 8,0(360) # LOOP 11
0013307 02 000420 145360 ----- -001- 24 VFD 8,0(312) 8,0(360) # LOOP 12
0013310 02 000421 144760 ----- -001- 25 VFD 8,0(311) 8,0(360) # LOOP 13
0013311 02 000422 015760 ----- -001- 26 VFD 8,0(33) 8,0(360) # LOOP 14
0013312 02 000423 023417 ----- -001- 27 VFD 8,0(47) 8,0(17) # LOOP 15
0013313 02 000424 025417 ----- -001- 28 VFD 8,0(53) 8,0(17) # LOOP 16
0013314 02 000425 026417 ----- -001- 29 VFD 8,0(55) 8,0(17) # LOOP 17
0013315 02 000426 016417 ----- -001- 30 VFD 8,0(35) 8,0(17) # LOOP 18
0013316 02 000427 154017 ----- -001- 31 VFD 8,0(330) 8,0(17) # LOOP 19
0013317 02 000430 134017 ----- -001- 32 VFD 8,0(270) 8,0(17) # LOOP 20
0013320 02 000431 074017 ----- -001- 33 VFD 8,0(17) 8,0(17) # LOOP 21
0013321 02 000432 164017 ----- -001- 34 VFD 8,0(350) 8,0(17) # LOOP 22
0013322 02 000433 035017 ----- -001- 35 VFD 8,0(72) 8,0(17) # LOOP 23
0013323 02 000434 036017 ----- -001- 36 VFD 8,0(74) 8,0(17) # LOOP 24
0013324 02 000435 146017 ----- -001- 37 VFD 8,0(314) 8,0(17) # LOOP 25
0013325 02 000436 145017 ----- -001- 38 VFD 8,0(312) 8,0(17) # LOOP 26
0013326 02 000437 144417 ----- -001- 39 VFD 8,0(311) 8,0(17) # LOOP 27
0013327 02 000440 015417 ----- -001- 40 VFD 8,0(33) 8,0(17) # LOOP 28
0013330 02 000441 170330 ----- -001- 41 VFD 8,0(360) 8,0(330) # LOOP 29
0013331 02 000442 170350 ----- -001- 42 VFD 8,0(360) 8,0(350) # LOOP 30
0013332 02 000443 170066 ----- -001- 43 VFD 8,0(360) 8,0(60) # LOOP 31
0013333 02 000444 170071 ----- -001- 44 VFD 8,0(360) 8,0(71) # LOOP 32
0013334 02 000445 170072 ----- -001- 45 VFD 8,0(360) 8,0(72) # LOOP 33
0013335 02 000446 170074 ----- -001- 46 VFD 8,0(360) 8,0(74) # LOOP 34
0013336 02 000447 170311 ----- -001- 47 VFD 8,0(360) 8,0(311) # LOOP 35
0013337 02 000450 170312 ----- -001- 48 VFD 8,0(360) 8,0(312) # LOOP 36
0013340 02 000451 007730 ----- -001- 49 VFD 8,0(17) 8,0(330) # LOOP 37

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 30

TEST 66 SEGMENT 2

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

0013341 02 000452 007750 ----- -001- 01 VFD 8,0(17) 8,0(350) # LOOP 38
0013342 02 000453 007466 ----- -001- 02 VFD 8,0(17) 8,0(66) # LOOP 39
0013343 02 000454 007471 ----- -001- 03 VFD 8,0(17) 8,0(71) # LOOP 40
0013344 02 000455 007472 ----- -001- 04 VFD 8,0(17) 8,0(72) # LOOP 41
0013345 02 000456 007474 ----- -001- 05 VFD 8,0(17) 8,0(74) # LOOP 42
0013346 02 000457 007711 ----- -001- 06 VFD 8,0(17) 8,0(311) # LOOP 43
0013347 02 000460 007712 ----- -001- 07 VFD 8,0(17) 8,0(312) # LOOP 44

```

```

-001- 10 # LP_END
-001- 11 # TERMINATE LOOP.
0013350 02 000461 040002 000000 CDGMI -001- 12 VFD 1,0 2,2 7,0 6,NLP_END
0013351 02 000462 000000 013272 0013272 -001- 13 ADDR LPSTART

```

20 # CHECK RESULTS

```

-001- 24 # RETRN
-001- 25 # RETURN OFF-LINE MCS TO ON-LINE MCHB.
0013353 02 000464 017311 ----- CDGMI -001- 26 VFD 1,0 2,0 7,8(1111011) 6,NZRETRN

-001- 28 # MASK
-001- 29 # MASK CONTENTS OF ON-LINE MCHB WITH 0(00177777).
0013354 02 000465 040013 ----- CDGMI -001- 30 VFD 1,0 2,2 7,0 6,NMASK
0013355 02 000466 000000 177777 -001- 31 ADDR 0(0177777)

-001- 33 # COMPARE
-001- 34 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0037774).
-001- 35 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013357 02 000470 050014 ----- CDGMI -001- 36 VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0013360 02 000471 000000 037774 -001- 37 ADDR 0(0037774)

-001- 39 # FAILTST
-001- 40 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLMCS1.
-001- 41 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013362 02 000473 020017 ----- CDGMI -001- 42 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0013363 02 000474 000015 ----- -001- 43 VFD 16,FLMCS1

-001- 45 # MICRO
-001- 46 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 47 # TO FIELD = MCHBXT FROM FIELD = IBXF
0013364 02 000475 020005 ----- CDGMI -001- 48 VFD 1,0 2,1 7,0 6,NMICRO
0013365 02 000476 014706 ----- -001- 49 VFD 8,MCHBXT 8,IBXF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 31

TEST 66 SEGMENT 2

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 02 # RETRN
0013366 02 000477 007710 ----- CDGMI  -001- 03 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
-001- 04 # VFD 1,0 2,0 7,B(0111111) 6,NRETRN

-001- 06 # COMPARE
-001- 07 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(00000000).
-001- 08 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013367 02 000500 050014 ----- CDGMI  -001- 09 # VFD 1,LPINX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013370 02 000501 000000 000000 -001- 10 # ADDR 0(00000000)

-001- 12 # FAILTST
-001- 13 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLEX.
-001- 14 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013372 02 000503 020017 ----- CDGMI  -001- 15 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0013373 02 000504 000016 ----- -001- 16 # VFD 16,FLEX

-001- 18 # MICRO
-001- 19 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 20 # TO FIELD = MCHBXT FROM FIELD = SIR1XF
0013374 02 000505 020005 ----- CDGMI  -001- 21 # VFD 1,0 2,1 7,0 6,NMICRO
0013375 02 000506 114435 ----- -001- 22 # VFD 6,MCHBXT 8,SIR1XF

-001- 24 # RETRN
-001- 25 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0013376 02 000507 007710 ----- CDGMI  -001- 26 # VFD 1,0 2,0 7,B(0111111) 6,NRETRN

-001- 28 # COMPARE
-001- 29 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(00000000).
-001- 30 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013377 02 000510 050014 ----- CDGMI  -001- 31 # VFD 1,LPINX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0013400 02 000511 000000 000000 -001- 32 # ADDR 0(00000000)

-001- 34 # FAILTST
-001- 35 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FL5IBSIR.
-001- 36 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013402 02 000513 020017 ----- CDGMI  -001- 37 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0013403 02 000514 000017 ----- -001- 38 # VFD 16,FL5IBSIR

-001- 40 # RETRN
-001- 41 # RETURN MISCELLANEOUS BITS TO ON-LINE MCHB.
0013404 02 000515 017511 ----- CDGMI  -001- 42 # VFD 1,0 2,0 7,B(1111101) 6,NZRETRN

-001- 44 # COMPARE
-001- 45 # COMPARE ON-LINE MCHB BIT (S(DISAB)) TO 0.
-001- 46 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013405 02 000516 020714 ----- CDGMI  -001- 47 # VFD 1,LPINX 2,1 1,0 1,SUCCESS 5,(S(DISAB)) 6,NCOMPARE
0013406 02 000517 000000 ----- -001- 48 # VFD 15,0 1,0

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 32

TEST 66 SEGMENT 2

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

H77D

	-001- 01 #	FAILTST
	-001- 02 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSDIS.
	-001- 03 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013407 02 000520 020017 -----	-001- 04	VFD 1,0 2,1 S,D 2,0 6,NFAILTST
0013410 02 000521 000020 -----	-001- 05	VFD 16,FLSDIS

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-10930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 33

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 66 SEGMENT 3
-001- 04 # *
-001- 05 # *****

```

0013411 02 000522 000300 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,D(3) 6,NTESTSEG

11 # SOME CROSSPOINTS WHICH WERE NOT PICKED UP IN EARLIER SEGMENTS
12 # ARE TRIED

0013412

```

14 # TEST FOR MULTIPLE FIRING OF BRXTI,
    ZPT, INCT
-001- 16 CMTMSCXP OW 0(523) # 13323
    NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000523 *****
-001- 17

```

0013412 02 000523 000141 -----

```

20 DATA 0(141)
-001- 21 # SKIP
-001- 22 # SKIP TO TABLE ENTRY AT ADDRESS LD_BR
-001- 23 VFD 1,0 2,2 7,0 6,NSKIP
-001- 24 ADDR LD_BR

```

0013413 02 000524 040025 000000 CDGMI
0013414 02 000525 000000 113371 0000607

0013416

```

26 EOW # 13323
-001- 27 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000526 *****

```

0013416 02 000527 011064 -----

```

30 DDELETE NOTE 1
31 DATA 0(11064)
32 CPATCH1 BGMP 0(607) # 13323
-001- 33 NOTE CPATCH1 'CSECT'
-001- 34 NOTE ***** PATCH AREA BEGINS AT 000607 *****

```

0113371

```

37 LD_BR
-001- 38 # SEND
-001- 39 # SEND 0(0011064) TO OFF-LINE DUPLICATE B REGISTERS.
-001- 40 # PARITY IS NORMAL.
-001- 41 VFD 1,0 2,2 7,B(1110111) 6,NSEND
-001- 42 ADDR 0(0011064)

```

0113371 06 000607 056706 ----- CDGMI
0113372 06 000610 000000 011064

```

-001- 44 # LP_BEGIN
-001- 45 # BEGIN 10 LOOPS.
-001- 46 TIMLP1 VFD 1,0 2,0 7,D(10) 6,NBEGIN

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 34

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W770

```

-001- 01 # ABORT
-001- 02 # TURN ON INTERRUPT ABORT SWITCH.
1113375 06 000613 000141 ----- CDGMI -001- 03 VFD 1,0 2,0 6,0 1,1 6,NABT

-001- 05 # SKIP
-001- 06 # SKIP TO TABLE ENTRY AT ADDRESS BRXTI
1113376 06 000614 040025 000000 CDGMI -001- 07 VFD 1,0 2,2 7,0 6,NSKIP
1113377 06 000615 000000 013417 0000530 -001- 08 ADDR BRXTI

1113401 -001- 10 ENDP # 13323
-001- 11 NOTE ***** LAST PATCH ADDRESS USED IS 000616 *****
-001- 12 NOTE ***** NUMBER OF PATCH WORDS USED IS 8 (DECIMAL) *****

-001- 15 CMTHSCXP OW 0(530) # 13323
-001- 16 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000530 *****

11013417 -001- 19 BRXTI
-001- 20 # MICRO
-001- 21 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 22 # MISCELLANEOUS CROSSPOINT SBTCX
11013417 02 000530 020005 ----- CDGMI -001- 23 VFD 1,0 2,1 7,0 6,NMICRO
11013420 02 000531 025471 ----- -001- 24 VFD 16,SBTCX

-001- 26 # MICRO
-001- 27 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 28 # MISCELLANEOUS CROSSPOINT BRXTIX
11013421 02 000532 020005 ----- CDGMI -001- 29 VFD 1,0 2,1 7,0 6,NMICRO
11013422 02 000533 154066 ----- -001- 30 VFD 16,BRXTIX

11013423 -001- 32 EOW # 13323
-001- 33 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000533 *****

-001- 37 # MICRO
-001- 38 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
11013423 02 000534 120005 ----- CDGMI -001- 39 VFD 1,1 2,1 7,0 6,NMICRO
11013424 02 000535 154017 ----- -001- 40 VFD 8,0(330) 8,0(17) # LOOP 1
11013425 02 000536 154360 ----- -001- 41 VFD 8,0(330) 8,0(360) # LOOP 2
11013426 02 000537 134017 ----- -001- 42 VFD 8,0(270) 8,0(17) # LOOP 3
11013427 02 000540 134360 ----- -001- 43 VFD 8,0(270) 8,0(360) # LOOP 4
11013430 02 000541 007471 ----- -001- 44 VFD 8,0(17) 8,0(71) # LOOP 5
11013431 02 000542 170071 ----- -001- 45 VFD 8,0(360) 8,0(71) # LOOP 6
11013432 02 000543 007466 ----- -001- 46 VFD 8,0(17) 8,0(66) # LOOP 7
11013433 02 000544 170066 ----- -001- 47 VFD 8,0(360) 8,0(66) # LOOP 8
11013434 02 000545 007750 ----- -001- 48 VFD 8,0(17) 8,0(330) # LOOP 9
11013435 02 000546 170350 ----- -001- 49 VFD 8,0(360) 8,0(330) # LOOP 10

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04

PAGE 35

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

                                03 CMTMSCXP OW      0(547)          # 13323
-001- 04      NOTE      ***** THE FIRST ADDRESS OVERWRITTEN IS 000547 *****

-001- 07 #      MICRO
-001- 08 #      PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 09 #      TO FIELD = MCHBXT FROM FIELD = TIXF
0013436 02 000547 020005 ----- CDGNN
0013437 02 000550 114623 -----
-001- 10      VFD      1,0 2,1 7,0 6,NMICRO
-001- 11      VFD      8,MCHBXT 8,TIXF

-001- 13 #      RETRNN
-001- 14 #      RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0013440 02 000551 007710 ----- CDGNN
-001- 15      VFD      1,0 2,0 7,B(01111111) 6,NRETRNN

-001- 17 #      COMPARE
-001- 18 #      COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0011064).
-001- 19 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013441 02 000552 050014 ----- CDGNN
0013442 02 000553 000000 011064
-001- 20      VFD      1,LINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
-001- 21      ADDR      0(0011064)

0013444 02 000555 020017 -----
0013445 02 000556 000021 -----
-001- 23      DATA      0(20017)
-001- 24      DATA      0(21)
-001- 25 #      SKIP
-001- 26 #      SKIP TO TABLE ENTRY AT ADDRESS CLR_ABT
0013446 02 000557 040025 000000 CDGNN
0013447 02 000560 000000 113401 0000617
-001- 27      VFD      1,0 2,2 7,0 6,NSKIP
-001- 28      ADDR      CLR_ABT

0013451
-001- 30      EOM          # 13323
-001- 31      NOTE      ***** THE LAST ADDRESS OVERWRITTEN IS 000561 *****

-001- 34 CPATCH1 BGNN      0(617)          # 13323
-001- 35      NOTE      CPATCH1 'CSECT'
-001- 36      NOTE      ***** PATCH AREA BEGINS AT 000617 *****

0113401
-001- 39 CLR_ABT
-001- 40 #      ABORT
0113401 06 000617 000041 ----- CDGNN
-001- 41 #      TURN OFF INTERRUPT ABORT SWITCH.
-001- 42      VFD      1,0 2,0 6,0 1,0 6,NABT

-001- 44 #      LP_END
-001- 45 #      TERMINATE LOOP.
0113402 06 000620 040002 000000 CDGNN
0113403 06 000621 000000 113374 0113374
-001- 46      VFD      1,0 2,2 7,0 6,NLP_END
-001- 47      ADDR      LPSTART

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 36

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

0113405 06 000623 040025 000000 CDGMI
0113406 06 000624 000000 013451 0000562
0113406
-001- 01 # SKIP
-001- 02 # SKIP TO TABLE ENTRY AT ADDRESS RT_BRK
-001- 03 VFD 1,0 2,2 7,0 6,NSKIP
-001- 04 ADDR RT_BRK
-001- 06 ENDP # 13323
-001- 07 NOTE ***** LAST PATCH ADDRESS USED IS 000625 *****
-001- 08 NOTE ***** NUMBER OF PATCH WORDS USED IS 7 (DECIMAL) *****

-001- 11 CMTMSCKP ON 0(562) # 13323
-001- 12 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000562 *****

0013451
-001- 15 RT_BRK
-001- 16 # ZERO PT
-001- 17 # ZERO THE OFF-LINE PROGRAM TIMER.
-001- 18 VFD 1,0 2,0 7,0 6,NZERPT

0013452
-001- 20 EOW # 13323
-001- 21 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000562 *****

-001- 24 # CALLPROS
-001- 25 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
-001- 26 VFD 1,0 2,0 6,0 1,0 6,NPROS

0013452 02 000563 000004 ----- CDGMI
-001- 28 # SEND
-001- 29 # SEND 0(0000010) TO OFF-LINE MCHB.
-001- 30 # PARITY IS NORMAL.
0013453 02 000564 047706 ----- CDGMI
0013454 02 000565 000000 000010
-001- 31 VFD 1,0 2,2 7,0 6,NSEND
-001- 32 ADDR 0(0000010)

-001- 34 # MICRO
-001- 35 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 36 # TO FIELD = SS_RXT FROM FIELD = MCHB_XF
0013456 02 000567 020005 ----- CDGMI
-001- 37 VFD 1,0 2,1 7,0 6,MICRO
-001- 38 VFD 8,SS_RXT 8,MCHB_XF

0013460
-001- 40 # TEST FOR MULTIPLE FIRING OF SBT
-001- 41 # LP_BEGIN
-001- 42 # BEGIN 4 LOOPS.
0013460 02 000571 000401 ----- CDGMI
-001- 43 TIMLP2 VFD 1,0 2,0 7,0(4) 6,NBEGIN

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04

PAGE 37

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
0013461 02 000572 120005 ----- CDGMI -001- 03 VFD 1,1 2,1 7,0 6,NMICRO
0013462 02 000573 025417 ----- -001- 04 VFD 8,0(53) 8,0(17) # LOOP 1
0013463 02 000574 025760 ----- -001- 05 VFD 8,0(53) 8,0(360) # LOOP 2
0013464 02 000575 007471 ----- -001- 06 VFD 8,0(17) 8,0(71) # LOOP 3
0013465 02 000576 170071 ----- -001- 07 VFD 8,0(360) 8,0(71) # LOOP 4

-001- 10 # LP_END
-001- 11 # TERMINATE LOOP.
0013466 02 000577 040002 000000 CDGMI -001- 12 VFD 1,0 2,2 7,0 6,NLP_END
0013467 02 000600 000000 013460 DD13460 -001- 13 ADDR LPSTART

-001- 16 # RETRN
-001- 17 # RETURN OFF-LINE SS TO ON-LINE MCHB.
0013471 02 000602 016711 ----- CDGMI -001- 18 VFD 1,0 2,0 7,B(110111) 6,N2RETRN

-001- 20 # COMPARE
-001- 21 # COMPARE ON-LINE MCHB BIT (S(BTC)) TO 0.
0013472 02 000603 020314 ----- CDGMI -001- 22 IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013473 02 000604 000000 ----- -001- 23 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(BTC)) 6,NCOMPARE
-001- 24 VFD 15,0 1,0

-001- 26 # FAILTST
-001- 27 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBTC.
0013474 02 000605 020017 ----- CDGMI -001- 28 DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013475 02 000606 000022 ----- -001- 29 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 30 VFD 16,FLBTC

-001- 33 # RTN_BLM
-001- 34 # TURN ON AUTOMATIC RETURNS TO BLM EVERY 20 TABLE ENTRIES.
0013476 02 000607 000044 ----- CDGMI -001- 35 VFD 1,0 2,0 6,0 1,0 6,NRTNBLM

0013477 ----- 37 # TEST ZER CROSSPOINT
-001- 38 # SEND
-001- 39 # SEND 0(0007777) TO OFF-LINE MCHB.
0013477 02 000610 047706 ----- CDGMI -001- 40 PARITY IS NORMAL.
0013500 02 000611 000000 007777 -001- 41 VFD 1,0 2,2 7,B(0111111) 6,NSEND
-001- 42 ADDR 0(0007777)

-001- 44 # MICRO
-001- 45 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0013502 02 000613 020005 ----- CDGMI -001- 46 TO FIELD = ERXT FROM FIELD = MCHBXF
0013503 02 000614 125231 ----- -001- 47 VFD 1,0 2,1 7,0 6,NMICRO
-001- 48 VFD 8,ERXT 8,MCHBXF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 38

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W770

```

-001- 01 # LP_BEGIN
-001- 02 # BEGIN 4 LOOPS.
0013504 02 000615 000401 ----- CDGNN -001- 03 ERLP VFD 1,0 2,0 7,0(4) 6,NBEGIN

-001- 05 # MICRO
-001- 06 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
0013505 02 000616 120005 ----- CDGNN -001- 07 VFD 1,1 2,1 7,0 6,NMICRO
0013506 02 000617 025760 ----- -001- 08 VFD 8,0(53) 8,0(360) # LOOP 1
0013507 02 000620 025417 ----- -001- 09 VFD 8,0(53) 8,0(17) # LOOP 2
0013510 02 000621 170350 ----- -001- 10 VFD 8,0(360) 8,0(350) # LOOP 3
0013511 02 000622 007750 ----- -001- 11 VFD 8,0(17) 8,0(350) # LOOP 4

-001- 14 # LP_END
-001- 15 # TERMINATE LOOP.
0013512 02 000623 040002 000000 CDGNN -001- 16 VFD 1,0 2,2 7,0 6,NLP_END
0013513 02 000624 000000 013504 0013504 -001- 17 ADDR LPSTART

-001- 20 # RETRN
-001- 21 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0013515 02 000626 013710 ----- CDGNN -001- 22 VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 24 # COMPARE NOT
-001- 25 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(01777777).
-001- 26 # IF COMPARISON DOES NOT EXIST, SKIP NEXT TABLE ENTRY.
0013516 02 000627 054014 ----- CDGNN -001- 27 VFD 1,LPINDX 2,2 1,1,SUCCESS 5,0 6,NCOMPARE
0013517 02 000630 000000 177777 -001- 28 ADDR 0(01777777)

-001- 30 # FAILTST
-001- 31 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLIER.
-001- 32 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013521 02 000632 020017 ----- CDGNN -001- 33 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0013522 02 000633 000023 ----- -001- 34 VFD 16,FLIER

0013523 37 # TEST "ENA" CROSSPOINT
-001- 38 # MICRO
-001- 39 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 40 # MISCELLANEOUS CROSSPOINT SDISX
0013523 02 000634 020005 ----- CDGNN -001- 41 VFD 1,0 2,1 7,0 6,NMICRO
0013524 02 000635 016471 ----- -001- 42 VFD 16,SDISX

0013525 44 # THE DISABLE CIRCUIT HAS NOT BEEN
# DIAGNOSED YET. CHECK THAT IT IS
# INITIALIZED TO PROPER STATE.

-001- 47 # RETRN
-001- 48 # RETURN MISCELLANEOUS BITS TO ON-LINE MCHB.
0013525 02 000636 017511 ----- CDGNN -001- 49 VFD 1,0 2,0 7,B(1111101) 6,N2RETRN

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 39

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 02 # COMPARE
-001- 03 # COMPARE ON-LINE MCHB BIT (M(DISAB)) TO 1.
-001- 04 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013526 02 000637 020014 ----- CDGNH -001- 05 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(M(DISAB)) 6,NCOMPARE
0013527 02 000640 000001 ----- -001- 06 VFD 15,0 1,1

-001- 08 # FAILTST
-001- 09 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDISAB.
0013530 02 000641 020017 ----- CDGNH -001- 10 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013531 02 000642 000024 ----- -001- 11 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 12 VFD 16,FLDISAB

-001- 14 # COMPARE
-001- 15 # COMPARE ON-LINE MCHB BIT (S(SENAB)) TO 0.
0013532 02 000643 020614 ----- CDGNH -001- 16 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013533 02 000644 000000 ----- -001- 17 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(SENAB)) 6,NCOMPARE
-001- 18 VFD 15,0 1,0

-001- 20 # FAILTST
-001- 21 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDISAB.
0013534 02 000645 020017 ----- CDGNH -001- 22 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013535 02 000646 000024 ----- -001- 23 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 24 VFD 16,FLDISAB

-001- 26 # LP BEGIN
0013536 02 000647 000401 ----- CDGNH -001- 27 # BEGIN 4 LOOPS.
-001- 28 ENALP VFD 1,0 2,0 7,0(4) 6,NBEGIN

-001- 30 # MICRO
-001- 31 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0013537 02 000650 020005 ----- CDGNH -001- 32 # MISCELLANEOUS CROSSPOINT SDISK
0013540 02 000651 016471 ----- -001- 33 VFD 1,0 2,1 7,0 6,NMICRO
-001- 34 VFD 16,SDISK

-001- 36 # MICRO
-001- 37 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
0013541 02 000652 120005 ----- CDGNH -001- 38 VFD 1,1 2,1 7,0 6,NMICRO
0013542 02 000653 035360 ----- -001- 39 VFD 8,0(72) 8,0(360) # LOOP 1
0013543 02 000654 035017 ----- -001- 40 VFD 8,0(72) 8,0(17) # LOOP 2
0013544 02 000655 170072 ----- -001- 41 VFD 8,0(360) 8,0(72) # LOOP 3
0013545 02 000656 007472 ----- -001- 42 VFD 8,0(17) 8,0(72) # LOOP 4

-001- 45 # LP END
-001- 46 # TERMINATE LOOP.
0013546 02 000657 040002 000000 CDGNH -001- 47 VFD 1,0 2,2 7,0 6,NLP_END
0013547 02 000660 000000 013536 0013536 -001- 48 ADDR LPSTART

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 40

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI W77D

```

-001- 02 # RETRN
-001- 03 # RETURN MISCELLANEOUS BITS TO ON-LINE MCHB.
0013551 02 000662 017511 ----- CDGNI VFD 1,0 2,0 7,B(1111101) 6,N2RETRN
-001- 04 #

-001- 06 # COMPARE
-001- 07 # COMPARE ON-LINE MCHB BIT (S(SENAB)) TO 0.
0013552 02 000663 020614 ----- CDGNI IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013553 02 000664 000000 ----- VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(SENAB)) 6,NCOMPARE
-001- 09 # VFD 15,0 1,0
-001- 10 #

-001- 12 # FAILTST
-001- 13 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLENAB.
0013554 02 000665 020017 ----- CDGNI DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013555 02 000666 000025 ----- VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 16 # VFD 16,FLENAB

-001- 18 # MICRO
-001- 19 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0013556 02 000667 020005 ----- CDGNI MISCELLANEOUS CROSSPOINT ENAX
-001- 20 # VFD 1,0 2,1 7,0 6,NMICRO
0013557 02 000670 035072 ----- VFD 16,ENAX
-001- 22 #

-001- 24 # RETRN
-001- 25 # RETURN MISCELLANEOUS BITS TO ON-LINE MCHB.
0013560 02 000671 017511 ----- CDGNI VFD 1,0 2,0 7,B(1111101) 6,N2RETRN
-001- 26 #

-001- 28 # COMPARE
-001- 29 # COMPARE ON-LINE MCHB BIT (S(SENAB)) TO 1.
0013561 02 000672 020614 ----- CDGNI IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013562 02 000673 000001 ----- VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(SENAB)) 6,NCOMPARE
-001- 31 # VFD 15,0 1,1
-001- 32 #

-001- 34 # FAILTST
-001- 35 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDISAB.
0013563 02 000674 020017 ----- CDGNI DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013564 02 000675 000024 ----- VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 37 # VFD 16,FLDISAB
-001- 38 #

-001- 40 # COMPARE
-001- 41 # COMPARE ON-LINE MCHB BIT (S(DISAB)) TO 1.
0013565 02 000676 020714 ----- CDGNI IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0013566 02 000677 000001 ----- VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(DISAB)) 6,NCOMPARE
-001- 43 # VFD 15,0 1,1
-001- 44 #

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 41

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 #      FAILTST
-001- 02 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDISAB.
-001- 03 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0013567 02 000700 020017 ----- CDGNM      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013570 02 000701 000024 -----      VFD      16,FLDISAB
-001- 05 #      VFD      16,FLDISAB

-001- 08 #      LP_BEGIN
-001- 09 #      BEGIN 4 LOOPS.
0013571 02 000702 000401 ----- CDGNM      VFD      1,0 2,0 7,0(4) 6,NBEGIN
-001- 10 ENBLP VFD      1,0 2,0 7,0(4) 6,NBEGIN

-001- 12 #      MICRO
-001- 13 #      PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
0013572 02 000703 120005 ----- CDGNM      VFD      1,1 2,1 7,0 6,NMICRO
0013573 02 000704 170071 -----      VFD      8,0(360) 8,0(71) # LOOP 1
0013574 02 000705 007471 -----      VFD      8,0(17) 8,0(71) # LOOP 2
0013575 02 000706 035360 -----      VFD      8,0(72) 8,0(360) # LOOP 3
0013576 02 000707 035017 -----      VFD      8,0(72) 8,0(17) # LOOP 4

-001- 21 #      LP_END
-001- 22 #      TERMINATE LOOP.
0013577 02 000710 040002 000000 CDGNM      VFD      1,0 2,2 7,0 6,NLP_END
0013600 02 000711 000000 013571 0013571 -001- 24      ADDR      LPSTART

-001- 27 #      RETRN
-001- 28 #      RETURN MISCELLANEOUS BITS TO ON-LINE MCHB.
0013602 02 000713 017511 ----- CDGNM      VFD      1,0 2,0 7,B(1111101) 6,NZRETRN
-001- 29 #      VFD      1,0 2,0 7,B(1111101) 6,NZRETRN

-001- 31 #      COMPARE
-001- 32 #      COMPARE ON-LINE MCHB BIT (S(DISAB)) TO 1.
0013603 02 000714 020714 ----- CDGNM      VFD      1,LPINSTR 2,1 1,0 1,SUCCESS 5,(S(DISAB)) 6,NCOMPARE
0013604 02 000715 000001 -----      VFD      15,0 1,1
-001- 35 #      VFD      15,0 1,1

-001- 37 #      FAILTST
-001- 38 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLENAB.
0013605 02 000716 020017 ----- CDGNM      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0013606 02 000717 000025 -----      VFD      16,FLENAB
-001- 41 #      VFD      16,FLENAB

-001- 44 #      PASSTST
-001- 45 #      GO TO DIAGNOSTIC MONITOR PASS BRANCH.
0013607 02 000720 000021 ----- CDGNM      VFD      1,0 2,0 7,0 6,NPASSTST
-001- 46 #      VFD      1,0 2,0 7,0 6,NPASSTST

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI ISSUE 04 PAGE 42

C07

TEST 66 SEGMENT 3

22:59:51 2/05/81 ****

MULTIPLE_MISCELLANEOUS_XPOINTS DIAGNOSTIC TEST

CDGMI

W77D

0013610 02 000721 000021 ----- CDGMI
-001- 02 # PASSTST
-001- 03 # GO TO DIAGNOSTIC MONITOR PASS BRANCH.
-001- 04 VFD 1,0 2,0 7,0 6,NPASSTST

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 43

TEST 68

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 # *****
-001- 02 # *****
-001- 03 # **
-001- 04 # ** CU DIAGNOSTIC TEST NO. 68, GATING_BUS_PARITY_CHECKER **
-001- 05 # **
-001- 06 # *****
-001- 07 # *****

```

0014411

-001- 10 CBUSPAR CSECT

-001- 13 # THIS TEST USES OFF-LINE CODE AT CSECT OBUSPAR

0014411 03 000000 004345 000220 CDGMI
 0014412 03 000001 000220 015020 EXTERN

```

-001- 17 VFD 1,0 2,0 2,1 2,0 3,3 6,NBGN
-001- 18 ADDR OBUSPAR,XBUSPAR

```

```

22 # SEGMENT 1
23 # THE BUS PARITY CHECK CIRCUIT IS TESTED USING A SERIES
24 # OF OPERANDS SOME CONTAINING GOOD PARITY AND SOME CONTAINING BAD
25 # PARITY. SINCE THE PARITY CHECKER IS INHIBITED WHEN THE
26 # PROCESSOR IS IN THE STOP MODE, THE OFF-LINE MACHINE MUST RUN ITS
27 # OWN CODE TO EXERCISE THIS CIRCUIT. THE TEST CONSTANTS WILL BE
28 # SUPPLIED FROM THE ON-LINE MACHINE AND THE OFF-LINE WILL BE MADE
29 # TO EXECUTE AN LR INSTRUCTION WHICH GATES THE TEST CONSTANT
30 # OVER THE BUS. THE ON-LINE PROCESSOR WILL CHECK THE ERROR BIT
31 # THE PARITY CHECKER ON THE LOW 8 BITS OF THE BUS IS TESTED FIRST.
32 # EIGHT CONSTANTS ARE REQUIRED. THE HIGH 12 BITS CONTAIN
33 # ALL ZEROS AND PH=1 IN EACH CONSTANT

35 # SEGMENT 2
36 # THE PARITY CHECKER ON THE HIGH 12 BITS OF THE BUS IS TESTED
37 # IN THE SAME WAY AS WAS DONE FOR THE LOW BITS IN SEGMENT 1
38 # EIGHT CONSTANTS ARE REQUIRED. THE LOW 8 BITS CONTAIN ZEROS
39 # AND PL=1 IN EACH CONSTANT

41 # SEGMENT 3
42 # THE BUS PARITY CHECKER IS INHIBITED UNDER THE FOLLOWING CONDITIONS
43 # 1. A NOP IN THE "FROM" FIELD
44 # 2. THE PROCESSOR IS STOPPED
45 # 3. THE BLOCK PARITY CHECK BIT IN THE SS IS SET.
46 # 4. A MISCELLANEOUS CROSSPOINT IS FIRED
47 # 5. THE SDRC OR SIRC "FROM" FIELD CROSSPOINTS WHEN THE DR=D
48 # 6. THE PROCESSOR IS IN THE FREEZE STATE.

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

44

E07

TEST 68

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W770

01 # SEGMENT 4
02 # THE 2/4 CODE B(1001), WHICH IS USED IN CONTUNCTION WITH THE
03 # CONTROL BITS IN A MICRO INSTRUCTION CA CB=11, CAUSES A BUS
04 # PARITY ERROR TO BE DIVERTED TO ANOTHER ERROR BIT IN THE ER
05 # WHICH DOES NOT RESULT IN SWITCHING OF PROCESSORS. THIS FEATURE
06 # IS USED IN CONJUNCTION WITH I/O INSTRUCTIONS SUCH THAT IF A
07 # RECEIVED MESSAGE CONTAINS BAD PARITY DUE TO FAULTY PERIPHERY, SWITCHING
08 # WILL NOT OCCUR.

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 45

TEST 68 SEGMENT 1

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 68 SEGMENT 1
-001- 04 # *
-001- 05 # *****

```

```

0014414 03 000003 000100 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,0(1) 6,NTESTSEG

```

```

11 # THE BUS PARITY CHECK CIRCUIT IS TESTED USING A SERIES
12 # OF OPERANDS SOME CONTAINING GOOD PARITY AND SOME CONTAINING BAD
13 # PARITY. SINCE THE PARITY CHECKER IS INHIBITED WHEN THE
14 # PROCESSOR IS IN THE STOP MODE, THE OFF-LINE MACHINE MUST RUN ITS
15 # OWN CODE TO EXERCISE THIS CIRCUIT. THE TEST CONSTANTS WILL BE
16 # SUPPLIED FROM THE ON-LINE MACHINE AND THE OFF-LINE WILL BE MADE
17 # TO EXECUTE AN LR INSTRUCTION WHICH GATES THE TEST CONSTANT
18 # OVER THE BUS. THE ON-LINE PROCESSOR WILL CHECK THE ERROR BIT.
19 # THE PARITY CHECKER ON THE LOW 8 BITS OF THE BUS IS TESTED FIRST.
20 # EIGHT CONSTANTS ARE REQUIRED. THE HIGH 12 BITS CONTAIN
21 # ALL ZEROS AND PH=1 IN EACH CONSTANT

```

```

-001- 23 # SEND
-001- 24 # SEND 0(1000000) TO OFF-LINE MCHB.
-001- 25 # PARITY IS NORMAL.
0014415 03 000004 047706 ----- CDGMI -001- 26 VFD 1,0 2,2 7,B(0111111) 6,NSEND
0014416 03 000005 000004 000000 -001- 27 ADDR 0(1000000)

```

```

-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0014420 03 000007 020005 ----- CDGMI -001- 31 # TO FIELD = SS_RXT FROM FIELD = MCHBXF
0014421 03 000010 107231 ----- -001- 32 VFD 1,0 2,1 7,0,6,NMICRO
-001- 33 VFD 8,SS_RXT 6,MCHBXF

```

```

-001- 35 # LP_BEGIN
-001- 36 # BEGIN 4 LOOPS.
0014422 03 000011 000401 ----- CDGMI -001- 37 BPARLP1 VFD 1,0 2,0 7,0(4) 6,NBEGIN

```

```

0014423 39 # FIRST 4 CONSTANTS HAVE PL=1

```

```

-001- 40 # SEND
-001- 41 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 42 # PARITY IS 0(3).
0014423 03 000012 147707 ----- CDGMI -001- 43 VFD 1,1 2,2 7,B(0111111) 6,N2SEND
0014424 03 000013 000060 000021 -001- 44 ADDR 0(0000021),0(3) # LOOP 1
0014426 03 000015 000060 000235 -001- 45 ADDR 0(0000235),0(3) # LOOP 2
0014430 03 000017 000060 000170 -001- 46 ADDR 0(0000170),0(3) # LOOP 3
0014432 03 000021 000060 000304 -001- 47 ADDR 0(0000304),0(3) # LOOP 4

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

46

TEST 68 SEGMENT 1

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W770

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = R0XT FROM FIELD = MCHBXF
0014434 03 000023 020005 ----- CDGMI
0014435 03 000024 051631 -----
-001- 04 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 05 # VFD 8,R0XT 8,MCHBXF

-001- 07 # ZERO_ER
-001- 08 # ZERO THE OFF-LINE ER.
0014436 03 000025 000012 ----- CDGMI
-001- 09 # VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 11 # EXECUTE
-001- 12 # EXECUTE THE INSTRUCTION LR IN THE OFF-LINE CU.
0014437 03 000026 040015 ----- CDGMI
-001- 13 # VFD 1,C 2,2 7,0 6,NEXECUTE
0014440 03 000027 104020 -----
-001- 14 # LR R1,R0
0014441 03 000030 056540 -----
-001- 15 # HALT

-001- 19 # STOP_OFF
-001- 20 # SET STOP BIT IN OFF-LINE CU.
0014442 03 000031 017627 ----- CDGMI
-001- 21 # VFD 1,0 2,0 7,B(11111110) 6,NSTOP

-001- 23 # RETRN
-001- 24 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014443 03 000032 013710 ----- CDGMI
-001- 25 # VFD 1,0 2,0 7,B(10111111) 6,NRETRN

-001- 27 # COMPARE
-001- 28 # COMPARE ON-LINE MCHB BIT S(BUSER) TO CONSTANTS.
-001- 29 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014444 03 000033 120314 ----- CDGMI
0014445 03 000034 000000 -----
-001- 30 # VFD 15,0 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
-001- 31 # VFD 15,0 1,0 # LOOP 1
0014446 03 000035 000001 -----
-001- 32 # VFD 15,0 1,1 # LOOP 2
0014447 03 000036 000000 -----
-001- 33 # VFD 15,0 1,0 # LOOP 3
0014450 03 000037 000001 -----
-001- 34 # VFD 15,0 1,1 # LOOP 4

-001- 36 # FAILTST
-001- 37 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBSPAR.
0014451 03 000040 020017 ----- CDGMI
-001- 38 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014452 03 000041 000001 -----
-001- 39 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 40 # VFD 16,FLBSPAR

-001- 42 # LP_END
-001- 43 # TERMINATE LOOP.
0014453 03 000042 040002 000000 CDGMI
0014454 03 000043 000000 014422 0014422
-001- 44 # VFD 1,0 2,2 7,0 6,NLP_END
-001- 45 # ADDR LPSTART

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

47

TEST 68 SEGMENT 1

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # LP_BEGIN
-001- 02 # BEGIN 4 LOOPS.
0014456 03 000045 000401 ----- CDGMI
-001- 03 BPARLP2 VFD 1,0 2,0 7,0(4) 6,NBEGIN

0014457
-001- 05 # NEXT 4 CONSTANTS HAVE PL=0
-001- 06 # SEND
-001- 07 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 08 # PARITY IS 0(2).
0014457 03 000046 147707 ----- CDGMI
-001- 09 VFD 1,1 2,2 7,0(111111) 6,N2SEND
0014460 03 000047 000040 000042
-001- 10 ADDR 0(0000042),0(2) # LOOP 1
0014462 03 000051 000040 000216
-001- 11 ADDR 0(0000216),0(2) # LOOP 2
0014464 03 000053 000040 000163
-001- 12 ADDR 0(0000163),0(2) # LOOP 3
0014466 03 000055 000040 000357
-001- 13 ADDR 0(0000357),0(2) # LOOP 4

-001- 15 # MICRO
-001- 16 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 17 # TO FIELD = R0XT FROM FIELD = MCHBFX
0014470 03 000057 020005 ----- CDGMI
-001- 18 VFD 1,0 2,1 7,0 6,NMICRO
0014471 03 000060 051631 -----
-001- 19 VFD 8,R0XT 8,MCHBFX

-001- 21 # ZERO ER
-001- 22 # ZERO THE OFF-LINE ER.
0014472 03 000061 000012 ----- CDGMI
-001- 23 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 25 # EXECUTE
-001- 26 # EXECUTE THE INSTRUCTION LR IN THE OFF-LINE CU.
0014473 03 000062 040015 ----- CDGMI
-001- 27 VFD 1,0 2,2 7,0 6,NEXECUTE
0014474 03 000063 106020 -----
-001- 28 LR R1,R0
0014475 03 000064 056540 -----
-001- 29 HALT

-001- 33 # STOP OFF
-001- 34 # SET STOP BIT IN OFF-LINE CU.
0014476 03 000065 017627 ----- CDGMI
-001- 35 VFD 1,0 2,0 7,0(1111110) 6,NSTOP

-001- 37 # RETRN
-001- 38 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014477 03 000066 013710 ----- CDGMI
-001- 39 VFD 1,0 2,0 7,0(1011111) 6,NRETRN

-001- 41 # COMPARE
-001- 42 # COMPARE ON-LINE MCHB BIT S(BUSER) TO CONSTANTS.
-001- 43 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014500 03 000067 120314 ----- CDGMI
-001- 44 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
0014501 03 000070 000001 -----
-001- 45 VFD 15,0 1,1 # LOOP 1
0014502 03 000071 000001 -----
-001- 46 VFD 15,0 1,1 # LOOP 2
0014503 03 000072 000000 -----
-001- 47 VFD 15,0 1,0 # LOOP 3
0014504 03 000073 000000 -----
-001- 48 VFD 15,0 1,0 # LOOP 4

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81

TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 48

BOB

TEST 68 SEGMENT 1

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

0014505 03 000074 020017 -----	CDGMI	-001- 01 #	FAILTST
0014506 03 000075 000001 -----		-001- 02 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBSPAR.
		-001- 03 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
		-001- 04	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
		-001- 05	VFD 16,FLBSPAR
		-001- 07 #	LP_END
0014507 03 000076 040002 000000 CDGMI		-001- 08 #	TERMINATE LOOP.
0014510 03 000077 000000 014456 0014456		-001- 09	VFD 1,0 2,2 7,0 6,NLP_END
		-001- 10	ADDR LPSTART

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 49

TEST 68 SEGMENT 2

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W770

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 68 SEGMENT 2
-001- 04 # *
-001- 05 # *****

0014512 03 000101 000200 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,D(2) 6,NTESTSEG

11 # THE PARITY CHECKER ON THE HIGH 12 BITS OF THE BUS IS TESTED
12 # IN THE SAME WAY AS WAS DONE FOR THE LOW BITS IN SEGMENT 1
13 # EIGHT CONSTANTS ARE REQUIRED. THE LOW 8 BITS CONTAIN ZEROS
14 # AND PL=1 IN EACH CONSTANT

-001- 16 # LP BEGIN
-001- 17 # BEGIN 4 LOOPS.
0014513 03 000102 000401 ----- CDGMI -001- 18 BPARLP3 VFD 1,0 2,0 7,D(4) 6,NBEGIN

0014514
-001- 20 # FIRST 4 CONSTANTS HAVE PH=1
-001- 21 # SEND
-001- 22 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 23 # PARITY IS 0(3).
0014514 03 000103 147707 ----- CDGMI -001- 24 VFD 1,1 2,2 7,D(0111111) 6,N2SEND
0014515 03 000104 000066 021000 -001- 25 ADDR 0(1421000),0(3) # LOOP 1
0014517 03 000106 000072 071400 -001- 26 ADDR 0(2471400),0(3) # LOOP 2
0014521 03 000110 000064 167400 -001- 27 ADDR 0(1167400),0(3) # LOOP 3
0014523 03 000112 000063 142000 -001- 28 ADDR 0(0742000),0(3) # LOOP 4

-001- 30 # MICRO
-001- 31 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 32 # TO FIELD = AKXT FROM FIELD = MCHBZF
0014525 03 000114 020005 ----- CDGMI -001- 33 VFD 1,0 2,1 7,0 6,NMICRO
0014526 03 000115 116231 ----- -001- 34 VFD 8,AKXT 8,MCHBZF

-001- 36 # ZERO ER
-001- 37 # ZERO THE OFF-LINE ER.
0014527 03 000116 000012 ----- CDGMI -001- 38 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 40 # EXECUTE
-001- 41 # EXECUTE THE INSTRUCTION LRS IN THE OFF-LINE CU.
0014530 03 000117 040015 ----- CDGMI -001- 42 VFD 1,0 2,2 7,0 6,NEXECUTE
E0014531 03 000120 121005 ----- -001- 43 LRS R0,AK
0014532 03 000121 056540 ----- -001- 44 HALT

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 50

TEST 68 SEGMENT 2

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 03 # STOP_OFF
0014533 03 000122 017627 ----- CDGMI SET STOP BIT IN OFF-LINE CU.
-001- 04 # VFD 1,0 2,0 7,B(11111110) 6,NSTOP
-001- 05

-001- 07 # RETRN
-001- 08 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014534 03 000123 013710 ----- CDGMI VFD 1,0 2,0 7,B(1011111) 6,NRETRN
-001- 09

-001- 11 # COMPARE
-001- 12 # COMPARE ON-LINE MCHB BIT S(BUSER) TO CONSTANTS.
-001- 13 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014535 03 000124 120314 ----- CDGMI VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,9(BUSER) 6,NCOMPARE
0014536 03 000125 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 1
0014537 03 000126 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 2
0014540 03 000127 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 3
0014541 03 000130 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 4

-001- 20 # FAILTST
-001- 21 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBPARG.
-001- 22 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014542 03 000131 020017 ----- CDGMI VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0014543 03 000132 000002 ----- CDGMI VFD 16,FLBPARG

-001- 26 # LP END
-001- 27 # TERMINATE LOOP.
0014544 03 000133 040002 000000 CDGMI VFD 1,0 2,2 7,0 6,NLP_END
0014545 03 000134 000000 014513 0014513 -001- 29 ADDR LPSTART

-001- 31 # LP BEGIN
-001- 32 # BEGIN 4 LOOPS.
0014547 03 000136 000401 ----- CDGMI -001- 33 BPARLP4 VFD 1,0 2,0 7,D(4) 6,NBEGIN

0014550 35 # NEXT 4 CONSTANTS HAVE PH=0
-001- 36 # SEND
-001- 37 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 38 # PARITY IS 0(1).
0014550 03 000137 147707 ----- CDGMI VFD 1,1 2,2 7,B(0111111) 6,N2SEND
0014551 03 000140 000037 010400 -001- 40 ADDR 0(3610400),0(1) # LOOP 1
0014553 03 000142 000034 107000 -001- 41 ADDR 0(3107000),0(1) # LOOP 2
0014555 03 000144 000025 116400 -001- 42 ADDR 0(1316400),0(1) # LOOP 3
0014557 03 000146 000021 074000 -001- 43 ADDR 0(0274000),0(1) # LOOP 4

-001- 45 # MICRO
-001- 46 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 47 # TO FIELD = AKXT FROM FIELD = MCHBXF
0014561 03 000150 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014562 03 000151 116231 ----- CDGMI -001- 49 VFD 8,AKXT 8,MCHBXF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 51

TEST 68 SEGMENT 2

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGHI

W770

```

-001- 02 # ZERO_ER
-001- 03 # ZERO THE OFF-LINE ER.
0014563 03 000152 000012 ----- CDGHI VFD 1,0 2,0 7,0 6,NZERO_ER
-001- 04 #
-001- 06 # EXECUTE
-001- 07 # EXECUTE THE INSTRUCTION LRS IN THE OFF-LINE CU.
0014564 03 000153 040015 ----- CDGHI
E0014565 03 000154 121005 ----- CDGHI VFD 1,0 2,2 7,0 6,NEXECUTE
0014566 03 000155 056540 ----- CDGHI LRS R0,AK
-001- 09 #
-001- 10 # HALT

-001- 14 # STOP_OFF
-001- 15 # SET STOP BIT IN OFF-LINE CU.
0014567 03 000156 017627 ----- CDGHI VFD 1,0 2,0 7,0 B(1111110) 6,NSTOP
-001- 16 #
-001- 18 # RETRN
-001- 19 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014570 03 000157 013710 ----- CDGHI VFD 1,0 2,0 7,0 B(1011111) 6,NRETRN
-001- 20 #
-001- 22 # COMPARE
-001- 23 # COMPARE ON-LINE MCHB BIT 8(BUSER) TO CONSTANTS.
-001- 24 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014571 03 000160 120314 ----- CDGHI VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
0014572 03 000161 000001 ----- CDGHI VFD 15,0 1,1 # LOOP 1
0014573 03 000162 000001 ----- CDGHI VFD 15,0 1,1 # LOOP 2
0014574 03 000163 000000 ----- CDGHI VFD 15,0 1,0 # LOOP 3
0014575 03 000164 000000 ----- CDGHI VFD 15,0 1,0 # LOOP 4

-001- 31 # FAILTST
-001- 32 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBPAR.
0014576 03 000165 020017 ----- CDGHI
0014577 03 000166 000002 ----- CDGHI VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 34 #
-001- 35 # VFD 16,FLBPAR

-001- 37 # LP_END
-001- 38 # TERMINATE LOOP.
0014600 03 000167 040002 000000 CDGHI VFD 1,0 2,2 7,0 6,NLP_END
0014601 03 000170 000000 014547 0014547 -001- 40 ADDR LPSTART

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGHI

ISSUE 04 PAGE 52

TEST 68 SEGMENT 3

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGNI

W770

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 68 SEGMENT 3
-001- 04 # *
-001- 05 # *****

```

```

0014603 03 000172 000300 ----- CDGNI -001- 08 VFD 1,0 2,0 2,0 5,D(3) 6,NTESTSEG

```

```

11 # THE BUS PARITY CHECKER IS INHIBITED UNDER THE FOLLOWING CONDITIONS
12 # 1. A NOP IN THE "FROM" FIELD
13 # 2. THE PROCESSOR IS STOPPED
14 # 3. THE BLOCK PARITY CHECK BIT IN THE SS IS SET.
15 # 4. A MISCELLANEOUS CROSSPOINT IS FIRED
16 # 5. THE SDRS OR SIRC "FROM" FIELD CROSSPOINTS WHEN THE DR=0
17 # 6. THE PROCESSOR IS IN THE FREEZE STATE

```

0014604

19

```

# A NOP IN THE "FROM" FIELD WILL APPEAR
DURING EACH MACHINE CYCLE WHILE IN THE
MICROINTERPRET MODE. THIS IS USED TO
TEST THE BLOCKING OF THE PARITY CHECK

```

```

-001- 23 # SEND
-001- 24 # SEND 0(000000) TO OFF-LINE GENERAL REGISTER 0.
-001- 25 # PARITY IS NORMAL.
0014604 03 000173 057606 ----- CDGNI -001- 26 VFD 1,0 2,2 7,B(11111110) 6,NSEND
0014605 03 000174 051400 ----- -001- 27 VFD 8,R0XT 2,0 2,C(0)
0014606 03 000175 000000 ----- -001- 28 VFD 16,0(000000)

```

```

-001- 30 # ZERO_ER
-001- 31 # ZERO THE OFF-LINE ER.
0014607 03 000176 000012 ----- CDGNI -001- 32 VFD 1,0 2,0 7,0 6,NZERO_ER

```

```

-001- 34 # ADD OFF
-001- 35 # START OFF-LINE PROCESSOR AT ADDRESS TSTNOP.
0014610 03 000177 040022 000000 CDGNI -001- 36 VFD 1,0 2,2 7,0 6,NADD_OFF
0014611 03 000200 000000 015020 CDGNI -001- 37 ADDR TSTNOP

```

```

-001- 39 # STOP OFF
-001- 40 # SET STOP BIT IN OFF-LINE CU.
0014613 03 000202 017627 ----- CDGNI -001- 41 VFD 1,0 2,0 7,B(11111110) 6,NSTOP

```

```

-001- 43 # RETRN
-001- 44 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014614 03 000203 013710 ----- CDGNI -001- 45 VFD 1,0 2,0 7,B(10111111) 6,NRETRN

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGNI

ISSUE 04 PAGE 53

TEST 68 SEGMENT 3

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # COMPARE
-001- 02 # COMPARE ON-LINE MCHB BIT S(BUSER) TO 0.
-001- 03 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014615 03 000204 020314 ----- CDGMI
0014616 03 000205 000000 -----
-001- 04 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
-001- 05 VFD 15,0 1,0

-001- 07 # FAULTST
-001- 08 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLPARNOP.
-001- 09 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014617 03 000206 020017 ----- CDGMI
0014620 03 000207 000003 -----
-001- 10 VFD 1,0 2,1 5,0 2,0 6,NFAULTST
-001- 11 VFD 16,FLPARNOP

0014621
13 # THE PARITY CIRCUIT SHOULD BE DISABLED
# WHEN PROCESSOR IS STOPPED

-001- 15 # STOP OFF
-001- 16 # SET STOP BIT IN OFF-LINE CU.
0014621 03 000210 017627 ----- CDGMI
-001- 17 VFD 1,0 2,0 7,B(11111110) 6,NSTOP

-001- 19 # ZERO ER
-001- 20 # ZERO THE OFF-LINE ER.
0014622 03 000211 000012 ----- CDGMI
-001- 21 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 23 # SEND
-001- 24 # SEND 0(000000) TO OFF-LINE GENERAL REGISTER 0.
-001- 25 # PARITY IS 0(0).
0014623 03 000212 057607 ----- CDGMI
0014624 03 000213 051400 -----
0014625 03 000214 000000 -----
-001- 26 VFD 1,0 2,2 7,B(11111110) 6,N2SEND
-001- 27 VFD 8,ROXT 2,0 2,0(0)
-001- 28 VFD 16,0(000000)

-001- 30 # RETRN
-001- 31 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014626 03 000215 013710 ----- CDGMI
-001- 32 VFD 1,0 2,0 7,B(10111111) 6,NRETRN

-001- 34 # COMPARE
-001- 35 # COMPARE ON-LINE MCHB BIT S(BUSER) TO 0.
-001- 36 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014627 03 000216 020314 ----- CDGMI
0014630 03 000217 000000 -----
-001- 37 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
-001- 38 VFD 15,0 1,0

-001- 40 # FAULTST
-001- 41 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLPARSTP.
-001- 42 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014631 03 000220 020017 ----- CDGMI
0014632 03 000221 000004 -----
-001- 43 VFD 1,0 2,1 5,0 2,0 6,NFAULTST
-001- 44 VFD 16,FLPARSTP

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 54

A09

TEST 68 SEGMENT 3

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W770

0014633

01

THE PARITY CIRCUIT SHOULD BE DISABLED
WHEN THE BPC BIT IN THE SS IS SET0014633 03 000222 047706 ----- CDGMI
0014634 03 000223 000004 000000

-001- 03 # SEND
-001- 04 # SEND 0(1000000) TO OFF-LINE MCHB.
-001- 05 # PARITY IS NORMAL.
-001- 06 VFD 1,0 2,2 7,B(0111111) 6,NSEND
-001- 07 ADDR 0(1000000)

0014636 03 000225 020005 ----- CDGMI
0014637 03 000226 105631 -----

-001- 09 # MICRO
-001- 10 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 11 # TO FIELD = SS_SXT FROM FIELD = MCHB_XF
-001- 12 VFD 1,0 2,1 7,0 6,NMICRO
-001- 13 VFD 8,SS_SXT 8,MCHB_XF

0014640 03 000227 057607 ----- CDGMI
0014641 03 000230 051400 -----
0014642 03 000231 000000 -----

-001- 15 # SEND
-001- 16 # SEND 0(000000) TO OFF-LINE GENERAL REGISTER 0.
-001- 17 # PARITY IS 0(0).
-001- 18 VFD 1,0 2,2 7,B(1111111) 4,N2SEND
-001- 19 VFD 8,RDXT 2,0 2,0(0)
-001- 20 VFD 16,0(000000)

0014643 03 000232 000012 ----- CDGMI

-001- 22 # ZERO_ER
-001- 23 # ZERO THE OFF-LINE ER.
-001- 24 VFD 1,0 2,0 7,0 6,NZERO_ER

0014644 03 000233 040015 ----- CDGMI
0014645 03 000234 106001 -----
0014646 03 000235 056540 -----

-001- 26 # EXECUTE
-001- 27 # EXECUTE THE INSTRUCTION LR IN THE OFF-LINE CU.
-001- 28 VFD 1,0 2,2 7,0 6,NEXECUTE
-001- 29 LR R0,R1
-001- 30 HALT

0014647 03 000236 017627 ----- CDGMI

-001- 34 # STOP_OFF
-001- 35 # SET STOP BIT IN OFF-LINE CU.
-001- 36 VFD 1,0 2,0 7,B(1111111) 6,NSTOP

0014650 03 000237 013710 ----- CDGMI

-001- 38 # RETRN
-001- 39 # RETURN OFF-LINE ER TO ON-LINE MCHB.
-001- 40 VFD 1,0 2,0 7,B(1011111) 6,NRETRN

0014651 03 000240 020314 ----- CDGMI
0014652 03 000241 000000 -----

-001- 42 # COMPARE
-001- 43 # COMPARE ON-LINE MCHB BIT \$(BUSER) TO 0.
-001- 44 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
-001- 45 VFD 1,LPINX 2,1 1,0 1,SUCCESS 5,\$(BUSER) 6,NCOMPARE
-001- 46 VFD 15,0 1,0

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 55

TEST 68 SEGMENT 3

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 # FAILTST
-001- 02 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLPARBPC.
-001- 03 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014653 03 000242 020017 ----- CDGMI
0014654 03 000243 000005 -----
-001- 04 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 05 # VFD 16,FLPARBPC

-001- 07 # STOP_OFF
-001- 08 # SET STOP BIT IN OFF-LINE CU.
0014655 03 000244 017627 ----- CDGMI
-001- 09 # VFD 1,0 2,0 7,8(11111110) 6,NSTOP

-001- 11 # SEND
-001- 12 # SEND 0(1000000) TO OFF-LINE MCHB.
-001- 13 # PARITY IS NORMAL.
0014656 03 000245 047706 ----- CDGMI
0014657 03 000246 000004 000000
-001- 14 # VFD 1,0 2,2 7,8(01111111) 6,NSEND
-001- 15 # ADDR 0(10000000)

-001- 17 # MICRO
-001- 18 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0014661 03 000250 020005 ----- CDGMI
0014662 03 000251 107231 -----
-001- 19 # TO FIELD = SS_RXT FROM FIELD = MCHBXF
-001- 20 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 21 # VFD 6,SS_RXT 8,MCHBXF

0014663 23

# ANY MISCELLANEOUS CROSSPOINT BLOCKS
# PARITY CHECK. THE TBN INSTRUCTION IS
# USED AS A TEST. WHEN THE CF IS SET BY
# MISCELLANEOUS CROSSPOINT, THE BUS
# CONTAINS BAD PARITY (ALL ZEROS)

-001- 28 # SEND
-001- 29 # SEND 0(000001) TO OFF-LINE GENERAL REGISTER 0.
0014663 03 000252 057606 ----- CDGMI
-001- 30 # PARITY IS NORMAL.
0014664 03 000253 051400 -----
0014665 03 000254 000001 -----
-001- 31 # VFD 1,0 2,2 7,8(11111110) 6,NSEND
-001- 32 # VFD 8,ROXT 2,0 2,0(0)
-001- 33 # VFD 16,0(000001)

-001- 35 # ZERO_ER
-001- 36 # ZERO THE OFF-LINE ER.
0014666 03 000255 000012 ----- CDGMI
-001- 37 # VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 39 # EXECUTE
-001- 40 # EXECUTE THE INSTRUCTION TBN IN THE OFF-LINE CU.
0014667 03 000256 040015 ----- CDGMI
0014670 03 000257 124000 -----
0014671 03 000260 056540 -----
-001- 41 # VFD 1,0 2,2 7,0 6,NEXECUTE
-001- 42 # TBN RD,0
-001- 43 # HALT

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI ISSUE 04 PAGE 56

TEST 68 SEGMENT 3

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 02 # STOP_OFF
-001- 03 # SET STOP BIT IN OFF-LINE CU.
0014672 03 000261 017627 ----- CDGMI -001- 04 # VFD 1,0 2,0 7,B(1111110) 6,NSTOP

-001- 06 # RETRN
-001- 07 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014673 03 000262 013710 ----- CDGMI -001- 08 # VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 10 # COMPARE
-001- 11 # COMPARE ON-LINE MCHB BIT S(BUSER) TO 0.
-001- 12 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014674 03 000263 020314 ----- CDGMI -001- 13 # VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(BUSER) 6,NCOMPARE
0014675 03 000264 000000 ----- -001- 14 # VFD 15,0 1,0

-001- 16 # FAILTST
-001- 17 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLMSC.
-001- 18 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014676 03 000265 020017 ----- CDGMI -001- 19 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0014677 03 000266 000006 ----- -001- 20 # VFD 16,FLMSC

-001- 22 # STOP_OFF
-001- 23 # SET STOP BIT IN OFF-LINE CU.
0014700 03 000267 017627 ----- CDGMI -001- 24 # VFD 1,0 2,0 7,B(1111110) 6,NSTOP

0014701 26 # THE SDRC "FROM" CROSSPOINT IS USED IN
# ANY DATA READ. THE STORE WILL NOT BE
# READY WITH DATA CONTAINING GOOD PARITY
# WHEN THE SDRC IS ENCOUNTERED BUT THE
# PARITY CHECK SHOULD BE BLOCKED

-001- 31 # ZERO_ER
-001- 32 # ZERO THE OFF-LINE ER.
0014701 03 000270 000012 ----- CDGMI -001- 33 # VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 35 # SEND
-001- 36 # SEND 0(000000) TO OFF-LINE GENERAL REGISTER 12.
-001- 37 # PARITY IS NORMAL.
0014702 03 000271 057606 ----- CDGMI -001- 38 # VFD 1,0 2,2 7,B(1111110) 6,NSEND
0014703 03 000272 043400 ----- -001- 39 # VFD 8,R12XT 2,0 2,0(0)
0014704 03 000273 000000 ----- -001- 40 # VFD 16,0(000000)

-001- 42 # SEND
-001- 43 # SEND PAGSCR+15 TO OFF-LINE GENERAL REGISTER 13.
-001- 44 # PARITY IS NORMAL.
0014705 03 000274 057606 ----- CDGMI -001- 45 # VFD 1,0 2,2 7,B(1111110) 6,NSEND
0014706 03 000275 043400 ----- -001- 46 # VFD 8,R13XT 2,0 2,0(0)
0014707 03 000276 043121 ----- CTSD -001- 47 # VFD 16,PAGSCR+15

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04

PAGE 57

TEST 68 SEGMENT 3

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W770

```

-001- 01 # EXECUTE
-001- 02 # EXECUTE THE INSTRUCTION L IN THE OFF-LINE CU.
0014710 03 000277 040015 ----- CDGNM -001- 03 VFD 1,0 2,2 7,0 6,NEXECUTE
0014711 03 000300 140000 ----- -001- 04 L R0,0(RA0)
0014712 03 000301 056540 ----- -001- 05 HALT

-001- 09 # STOP_OFF
-001- 10 # SET STOP BIT IN OFF-LINE CU.
0014713 03 000302 017627 ----- CDGNM -001- 11 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

-001- 13 # RETRN
-001- 14 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014714 03 000303 013710 ----- CDGNM -001- 15 VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 17 # COMPARE
-001- 18 # COMPARE ON-LINE MCHB BIT $(BUSER) TO 0.
-001- 19 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014715 03 000304 020314 ----- CDGNM -001- 20 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,$(BUSER) 6,NCOMPARE
0014716 03 000305 000000 ----- -001- 21 VFD 15,0 1,0

-001- 23 # FAILTST
-001- 24 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSDRC.
-001- 25 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014717 03 000306 020017 ----- CDGNM -001- 26 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0014720 03 000307 000007 ----- -001- 27 VFD 16,FLSDRC

-001- 29 # STOP_OFF
-001- 30 # SET STOP BIT IN OFF-LINE CU.
0014721 03 000310 017627 ----- CDGNM -001- 31 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

0014722 33 # THE SIRC "FROM" CROSSPOINT IS USED BY
# 2 WORD COMMANDS. THE STORE WILL NOT BE
# READY WITH THE SECOND WORD OF THE
# COMMAND WHEN THE SIRC IS FIRST ENCOUNTERED
# BUT THE PARITY CHECK SHOULD BE BLOCKED

-001- 38 # ZERO_ER
-001- 39 # ZERO THE OFF-LINE ER.
0014722 03 000311 000012 ----- CDGNM -001- 40 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 42 # EXECUTE
-001- 43 # EXECUTE THE INSTRUCTION STL IN THE OFF-LINE CU.
0014723 03 000312 040015 ----- CDGNM -001- 44 VFD 1,0 2,2 7,0 6,NEXECUTE
0014724 03 000313 134400 043121 CTSD -001- 45 STL R0,PAGSCR+15

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

58

TEST 68 SEGMENT 3

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

COGMI

W770

```

-001- 03 # STOP OFF
-001- 04 # SET STOP BIT IN OFF-LINE CU.
0014726 03 000315 017627 ----- COGNM -001- 05 VFD 1,0 2,0 7,B(11111110) 6,NSTOP

-001- 07 # RETRN
-001- 08 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014727 03 000316 013710 ----- COGNM -001- 09 VFD 1,0 2,0 7,B(10111111) 6,NRETRN

-001- 11 # COMPARE
-001- 12 # COMPARE ON-LINE MCHB BIT S(BUSER) TO 0.
-001- 13 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014730 03 000317 020314 ----- COGNM -001- 14 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
0014731 03 000320 000000 ----- -001- 15 VFD 15,0 1,0

-001- 17 # FAILTST
-001- 18 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSIRC.
0014732 03 000321 020017 ----- COGNM -001- 19 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014733 03 000322 000010 ----- -001- 20 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 21 VFD 16,FLSIRC

-001- 23 # STOP OFF
-001- 24 # SET STOP BIT IN OFF-LINE CU.
0014734 03 000323 017627 ----- COGNM -001- 25 VFD 1,0 2,0 7,B(11111110) 6,NSTOP

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET COGMI

ISSUE 04 PAGE 59

TEST 68 SEGMENT 4

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 68 SEGMENT 4
-001- 04 # *
-001- 05 # *****

```

```

0014735 03 000324 000400 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,D(4) 6,NTESTSEG

```

```

11 # THE 2/4 CODE B(1001), WHICH IS USED IN CONJUNCTION WITH THE
12 # CONTROL BITS IN A MICRO INSTRUCTION CA CB=11, CAUSES A BUS
13 # PARITY ERROR TO BE DIVERTED TO ANOTHER ERROR BIT IN THE ER
14 # WHICH DOES NOT RESULT IN SWITCHING OF PROCESSORS. THIS FEATURE
15 # IS USED IN CONJUNCTION WITH I/O INSTRUCTIONS SUCH THAT IF A
16 # RECEIVED MESSAGE CONTAINS BAD PARITY DUE TO FAULTY PERIPHERY, SWITCHING
17 # WILL NOT OCCUR.

```

```

-001- 19 # SEND
-001- 20 # SEND 0(0000001) TO OFF-LINE MCHB.
-001- 21 # PARITY IS 0(0).
0014736 03 000325 047707 ----- CDGMI -001- 22 VFD 1,0 2,2 7,B(0111111) 6,NZSEND
0014737 03 000326 000000 000001 -001- 23 ADDR 0(0000001),0(0)

```

```

0014741 25 # OVERHIDE LOCK OFF-LINE

```

```

-001- 26 # MICRO
-001- 27 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0014741 03 000330 020005 ----- CDGMI -001- 28 TO FIELD = MSXT FROM FIELD = MCHBXF
0014742 03 000331 106631 ----- -001- 29 VFD 1,0 2,1 7,0 6,NMICRO
-001- 30 VFD 6,MSXT 8,MCHBXF

```

```

0014743 32 #
# NORMALLY, BAD PARITY SHOULD SET THE
# BUSER BIT BUT SHOULD NOT SET THE IOPARE
# ERROR BIT

```

```

-001- 35 # SEND
-001- 36 # SEND 0(0000000) TO OFF-LINE GENERAL REGISTER 0.
-001- 37 # PARITY IS 0(0).
0014743 03 000332 057407 ----- CDGMI -001- 38 VFD 1,0 2,2 7,B(1111110) 6,NZSEND
0014744 03 000333 051400 ----- -001- 39 VFD 6,ROST 2,0 2,0(0)
0014745 03 000334 000000 ----- -001- 40 VFD 16,0(000000)

```

```

-001- 42 # ZERO_ER
-001- 43 # ZERO THE OFF-LINE ER.
0014746 03 000335 000012 ----- CDGMI -001- 44 VFD 1,0 2,0 7,0 6,NZERO_ER

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 40

TEST 68 SEGMENT 4

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # EXECUTE
-001- 02 # EXECUTE THE INSTRUCTION LR IN THE OFF-LINE CU.
-001- 03 # VFD 1,0 2,2 7,0 6,NEXECUTE
-001- 04 # LR R1,R0
-001- 05 # HALT

0014747 03 000336 040015 ----- CDGMI
0014750 03 000337 106020 -----
0014751 03 000340 056540 -----

-001- 09 # STOP OFF
-001- 10 # SET STOP BIT IN OFF-LINE CU.
-001- 11 # VFD 1,0 2,0 7,0(1111110) 6,NSTOP

0014752 03 000341 017627 ----- CDGMI

-001- 13 # RETRM
-001- 14 # RETURN OFF-LINE ER TO ON-LINE MCHB.
-001- 15 # VFD 1,0 2,0 7,0(1011111) 6,NRETRM

0014753 03 000342 013710 ----- CDGMI
0014754

# IOPARER BIT SHOULD NOT BE SET

-001- 17 # COMPARE
-001- 18 # COMPARE ON-LINE MCHB BIT S(IOPARER) TO 0.
-001- 19 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
-001- 20 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(IOPARER) 6,NCOMPARE
0014754 03 000343 022514 ----- CDGMI
0014755 03 000344 000000 -----
-001- 22 # VFD 15,0 1,0

-001- 24 # FAILTST
-001- 25 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDVRT.
-001- 26 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014756 03 000345 020017 ----- CDGMI
0014757 03 000346 000012 -----
-001- 27 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 28 # VFD 16,FLDVRT

-001- 30 # SEND
-001- 31 # SEND 0(00000001) TO OFF-LINE MCHB.
-001- 32 # PARITY IS NORMAL.
0014760 03 000347 047706 ----- CDGMI
0014761 03 000350 000000 000001
-001- 33 # VFD 1,0 2,2 7,0(0111111) 6,NSEND
-001- 34 # ADDR 0(00000001)

-001- 36 # MICRO
-001- 37 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 38 # TO FIELD = MSXT FROM FIELD = MCHBFX
0014763 03 000352 020005 ----- CDGMI
0014764 03 000353 106631 -----
-001- 39 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 40 # VFD 8,MSXT 8,MCHBFX

0014765 42 # DIVERT PARITY CHECK USING AN I/O ORDER

-001- 45 # SEND
-001- 46 # SEND 0(000000) TO OFF-LINE GENERAL REGISTER 10.
-001- 47 # PARITY IS 0(0).
0014765 03 000354 057607 ----- CDGMI
0014766 03 000355 065000 -----
-001- 48 # VFD 1,0 2,2 7,0(1111110) 6,NZSEND
-001- 49 # VFD 8,R10XT 2,0 2,0(0)

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

TEST 68 SEGMENT 4

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI W770

```

0014767 03 000356 000000 ----- -001- 01 VFD 16,0(000000).
0014770 03 000357 057406 ----- -001- 05 # SEND
                                -001- 06 # SEND 0(016166) TO OFF-LINE GENERAL REGISTER 9.
                                -001- 07 # PARITY IS NORMAL.
0014770 03 000357 057406 ----- CDGMI -001- 08 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0014771 03 000360 044400 ----- -001- 09 VFD 8,NSXT 2,0 2,0(0)
0014772 03 000361 016166 ----- -001- 10 VFD 16,0(016166)

                                -001- 12 # MICRO
                                -001- 13 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 14 # MISCELLANEOUS CROSSPOINT MD0IDCHX
0014773 03 000362 020005 ----- CDGMI -001- 15 VFD 1,0 2,1 7,0 6,NMICRO
0014774 03 000363 164066 ----- -001- 16 VFD 16,MD0IDCHX

                                -001- 18 # MICRO
                                -001- 19 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 20 # MISCELLANEOUS CROSSPOINT MD6RAIOX
0014775 03 000364 020005 ----- CDGMI -001- 21 VFD 1,0 2,1 7,0 6,NMICRO
0014776 03 000365 074072 ----- -001- 22 VFD 16,MD6RAIOX

                                -001- 24 # MICRO
                                -001- 25 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 26 # MISCELLANEOUS CROSSPOINT MD3CHCX
0014777 03 000366 020005 ----- CDGMI -001- 27 VFD 1,0 2,1 7,0 6,NMICRO
0015000 03 000367 164074 ----- -001- 28 VFD 16,MD3CHCX

                                -001- 30 # ZERO_ER
                                -001- 31 # ZERO THE OFF-LINE ER.
0015001 03 000370 000012 ----- CDGMI -001- 32 VFD 1,0 2,0 7,0 6,NZERO_ER

0015002 03 000371 040022 000000 CDGMI 34 # OFF-LINE CODE SETS UP THE MAINTENANCE
                                STATE TO OVERRIDE LOCK OFF-LINE AND
                                EXECUTES TIO INSTRUCTION.

                                -001- 37 # ADD_OFF
                                -001- 38 # START OFF-LINE PROCESSOR AT ADDRESS DOTIO.
0015002 03 000371 040022 000000 CDGMI -001- 39 VFD 1,0 2,2 7,0 6,NADD_OFF
0015003 03 000372 000000 015023 CDGMI -001- 40 ADDR DOTIO

                                -001- 42 # STOP_OFF
                                -001- 43 # SET STOP BIT IN OFF-LINE CU.
0015005 03 000374 017627 ----- CDGMI -001- 44 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 62

TEST 68 SEGMENT 4

22:59:51 2/05/81 ****

GATING_BUS_PARITY_CHECKER DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # RETRN
-001- 02 # RETURN OFF-LINE ER TO ON-LINE MCHB.
-001- 03 VFD 1,0 2,0 7,8(1011111) 6,NRETRN

0015006 03 000375 013710 ----- CDGMI
0015007 05 # BUSER SHOULD NOT BE SET, IOPARER
SHOULD

-001- 07 # COMPARE
-001- 08 # COMPARE ON-LINE MCHB BIT S(BUSER) TO 0.
-001- 09 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0015007 03 000376 020314 ----- CDGMI VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
0015010 03 000377 000000 ----- CDGMI VFD 15,0 1,0

-001- 13 # FAILTST
-001- 14 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDVRT.
-001- 15 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0015011 03 000400 020017 ----- CDGMI VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0015012 03 000401 000012 ----- CDGMI VFD 16,F,LDVRT

-001- 19 # COMPARE
-001- 20 # COMPARE ON-LINE MCHB BIT S(IOPARER) TO 1.
-001- 21 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0015013 03 000402 022514 ----- CDGMI VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(IOPARER) 6,NCOMPARE
0015014 03 000403 000001 ----- CDGMI VFD 15,0 1,1

-001- 25 # FAILTST
-001- 26 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDVRT.
-001- 27 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0015015 03 000404 020017 ----- CDGMI VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0015016 03 000405 000012 ----- CDGMI VFD 16,F,LDVRT

-001- 31 # PASSTST
-001- 32 # GO TO DIAGNOSTIC MONITOR PASS BRANCH.
0015017 03 000406 000021 ----- CDGMI VFD 1,0 2,0 7,0 6,NPASSTST
-001- 33

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 63

TEST 69

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 # *****
-001- 02 # *****
-001- 03 # **
-001- 04 # ** CU DIAGNOSTIC TEST NO. 69, IB_X_AND_Y_FIELD_PARITY_GENERATOR
-001- 05 # **
-001- 06 # *****
-001- 07 # *****

```

0013761

-001- 10 CPOXYPAR CSECT

0013761 04 000000 000145 ----- CDGNM -001- 14 VFD 1,0 2,0 2,0 2,0 3,1 6,NBGN

```

18 # SEGMENT 1
19 # THE PARITY GENERATOR ON THE X FIELD OF THE IB USED FOR
20 # TABLE INDEXING IN MICROSTORE IS TESTED AS FOLLOWS. AN ADDRESS
21 # OF A TEST MICRO WORD WITH PTA=0 PNA=0 IS FROZEN IN
22 # THE MAR. A CONSTANT IS PUT IN X FIELD OF THE IB, THE ER
23 # IS CLEARED AND THE INDEXING CROSSPOINT ("TX") IS FIRED.
24 # IF THE CONSTANT CONTAINS AN ODD NUMBER OF ONES, THE COMPLEMENT
25 # OF PNA IS COMPARED WITH PTA BY THE MAR PARITY CIRCUIT AND
26 # A MISMATCH RESULTS, SETTING THE "MADR" ERROR BIT. IF THE
27 # CONSTANT CONTAINS AN EVEN NUMBER OF ONES, NO ERROR SHOULD RESULT

29 # SEGMENT 2
30 # THE PARITY GENERATOR ON THE IB Y FIELD IS TESTED AS THE
31 # X FIELD WAS TESTED IN SEGMENT 1

33 # SEGMENT 3
34 # WHEN THE IB IS LOADED EITHER FROM THE BUS OR FROM THE
35 # SIR, A CHECK IS MADE ON THE PARITY OF THE X AND Y FIELDS.
36 # THE OUTPUT OF THE TWO PARITY GENERATORS WHICH WERE TESTED
37 # IN SEGMENTS 1 AND 2 ARE COMBINED AND COMPARED WITH PL.
38 # LACK OF AGREEMENT SETS ERROR BIT "IBER". THIS FUNCTION IS
39 # CHECKED USING ALL 8 COMBINATIONS OF X PARITY, Y PARITY AND PL.

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 64

22:59:51 2/05/81 ****

TEST 69 SEGMENT 1

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 69 SEGMENT 1 *
-001- 04 # *****
-001- 05 # *****

0013762 04 000001 000100 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,D(1) 6,NTESTSEG

11 # THE PARITY GENERATOR ON THE X FIELD OF THE IB USED FOR
12 # TABLE INDEXING IN MICROSTORE IS TESTED AS FOLLOWS. AN STOP
13 # ADDRESS WITH PTA=0 PNA=0 IS IN
14 # THE MAR. A CONSTANT IS PUT IN X FIELD OF THE IB, THE ER
15 # IS CLEARED AND THE INDEXING CROSSPOINT ("TX") IS FIRED.
16 # IF THE CONSTANT CONTAINS AN ODD NUMBER OF ONES, THE COMPLEMENT
17 # OF PNA IS COMPARED WITH PTA BY THE MAR PARITY CIRCUIT AND
18 # A MISMATCH RESULTS, SETTING THE "MADER" ERROR BIT. IF THE
19 # CONSTANT CONTAINS AN EVEN NUMBER OF ONES, NO ERROR SHOULD RESULT

-001- 21 # SEND
-001- 22 # SEND 0(0000000) TO OFF-LINE MCHB.
-001- 23 # PARITY IS 0(2).
0013763 04 000002 047707 ----- CDGMI -001- 24 VFD 1,0 2,2 7,B(0111111) 6,NZSEND
0013764 04 000003 000040 000000 -001- 25 ADDR 0(0000000),0(2)

0013766 # MAINTENANCE STATE TO ENABLE MAR
# PARITY ERROR CIRCUIT IN STOP MODE.

-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 31 # TO FIELD = MSXT FROM FIELD = MCHBFX
0013766 04 000005 020005 ----- CDGMI -001- 32 VFD 1,0 2,1 7,D 6,NMICRO
0013767 04 000006 106631 ----- -001- 33 VFD 8,MSXT 8,MCHBFX

-001- 35 # MICRO
-001- 36 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 37 # MISCELLANEOUS CROSSPOINT ZDRX
0013770 04 000007 020705 ----- CDGMI -001- 38 VFD 1,0 2,1 7,D 6,NMICRO
0013771 04 000010 105472 ----- -001- 39 VFD 16,ZDRX

-001- 41 # LP_BEGIN
-001- 42 # BEGIN 16 LOOPS.
0013772 04 000011 002001 ----- CDGMI -001- 43 TSTXLP VFD 1,0 2,0 7,D(16) 6,NBEGIN

-001- 45 # SEND
-001- 46 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 47 # PARITY IS NORMAL.
0013773 04 000012 147706 ----- CDGMI -001- 48 VFD 1,1 2,2 7,B(0111111) 6,NSEND
0013774 04 000013 000000 000020 -001- 49 ADDR 0(0000020) # LOOP 1

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 65

TEST 69 SEGMENT 1

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMH W77D

0013776	04	000015	000000	000040	-001- 01	ADDR	0(0000040)	#	LOOP 2	
0014000	04	000017	000000	000100	-001- 02	ADDR	0(0000100)	#	LOOP 3	
0014002	04	000021	000000	000200	-001- 03	ADDR	0(0000200)	#	LOOP 4	
0014004	04	000023	000000	000160	-001- 04	ADDR	0(0000160)	#	LOOP 5	
0014006	04	000025	000000	000260	-001- 05	ADDR	0(0000260)	#	LOOP 6	
0014010	04	000027	000000	000320	-001- 06	ADDR	0(0000320)	#	LOOP 7	
0014012	04	000031	000000	000340	-001- 07	ADDR	0(0000340)	#	LOOP 8	
0014014	04	000033	000000	000060	-001- 08	ADDR	0(0000060)	#	LOOP 9	
0014016	04	000035	000000	000120	-001- 09	ADDR	0(0000120)	#	LOOP 10	
0014020	04	000037	000000	000140	-001- 10	ADDR	0(0000140)	#	LOOP 11	
0014022	04	000041	000000	000220	-001- 11	ADDR	0(0000220)	#	LOOP 12	
0014024	04	000043	000000	000240	-001- 12	ADDR	0(0000240)	#	LOOP 13	
0014026	04	000045	000000	000300	-001- 13	ADDR	0(0000300)	#	LOOP 14	
0014030	04	000047	000000	000360	-001- 14	ADDR	0(0000360)	#	LOOP 15	
0014032	04	000051	000000	000000	-001- 15	ADDR	0(0000000)	#	LOOP 16	
						-001- 17 #	MICRO			
						-001- 18 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.			
0014034	04	000053	020005	-----	CDGMH	-001- 19 #	TO FIELD = IBXT FROM FIELD = MCHBXF			
0014035	04	000054	143231	-----		-001- 20	VFD	1,0 2,1 7,0 6,NMICRO		
						-001- 21	VFD	8,IBXT 8,MCHBXF		
						-001- 23 #	ZERO_ER			
						-001- 24 #	ZERO THE OFF-LINE ER.			
0014036	04	000055	000012	-----	CDGMH	-001- 25	VFD	1,0 2,0 7,0 6,NZERO_ER		
						-001- 27 #	MICRO			
						-001- 28 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.			
						-001- 29 #	MISCELLANEOUS CROSSPOINT TXX			
0014037	04	000056	020005	-----	CDGMH	-001- 30	VFD	1,0 2,1 7,0 6,NMICRO		
0014040	04	000057	144750	-----		-001- 31	VFD	16,TXX		
						-001- 33 #	RETRN			
						-001- 34 #	RETURN OFF-LINE ER TO ON-LINE MCHB.			
0014041	04	000060	013710	-----	CDGMH	-001- 35	VFD	1,0 2,0 7,8(1011111) 6,NRETRN		
						-001- 37 #	COMPARE			
						-001- 38 #	COMPARE ON-LINE MCHB BIT S(MARER) TO CONSTANTS.			
						-001- 39 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.			
0014042	04	000061	120514	-----	CDGMH	-001- 40	VFD	1,LPIIDX 2,1 1,0 1,SUCCESS 5,S(MARER) 6,NCOMPARE		
0014043	04	000062	000001	-----		-001- 41	VFD	15,0 1,1	# LOOP 1	
0014044	04	000063	000001	-----		-001- 42	VFD	15,0 1,1	# LOOP 2	
0014045	04	000064	000001	-----		-001- 43	VFD	15,0 1,1	# LOOP 3	
0014046	04	000065	000001	-----		-001- 44	VFD	15,0 1,1	# LOOP 4	
0014047	04	000066	000001	-----		-001- 45	VFD	15,0 1,1	# LOOP 5	
0014050	04	000067	000001	-----		-001- 46	VFD	15,0 1,1	# LOOP 6	
0014051	04	000070	000001	-----		-001- 47	VFD	15,0 1,1	# LOOP 7	
0014052	04	000071	000001	-----		-001- 48	VFD	15,0 1,1	# LOOP 8	
0014053	04	000072	000000	-----		-001- 49	VFD	15,0 1,1	# LOOP 9	

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMH ISSUE 04 PAGE 66

TEST 69 SEGMENT 1

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMH

W770

```

0014054 04 000073 000000 ----- -001- 01 VFD 15,0 1,0 # LOOP 10
0014055 04 000074 000000 ----- -001- 02 VFD 15,0 1,0 # LOOP 11
0014056 04 000075 000000 ----- -001- 03 VFD 15,0 1,0 # LOOP 12
0014057 04 000076 000000 ----- -001- 04 VFD 15,0 1,0 # LOOP 13
0014060 04 000077 000000 ----- -001- 05 VFD 15,0 1,0 # LOOP 14
0014061 04 000100 000000 ----- -001- 06 VFD 15,0 1,0 # LOOP 15
0014062 04 000101 000000 ----- -001- 07 VFD 15,0 1,0 # LOOP 16

-001- 09 # FATLTST
-001- 10 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLXPAR.
-001- 11 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014063 04 000102 020017 ----- CDGMH VFD 1,0 2,1 5,0 2,0 6,NFALTST
0014064 04 000103 000001 ----- -001- 13 VFD 16,FLXPAR

-001- 15 # LP_END
-001- 16 # TERMINATE LOOP.
0014065 04 000104 040002 000000 CDGMH VFD 1,0 2,2 7,0 6,NLP_END
0014066 04 000105 000000 013772 0013772 -001- 18 ADDR LPSTART

```

0014070

20

THE X FIELD PARITY GENERATOR HAS BEEN COMPLETELY TESTED BUT SOME OF THE LOGIC IN THE MAR PARITY CIRCUIT HAS NOT. TWO INDEXING OPERATIONS ARE NECESSARY, ONE WITH EVEN PARITY, THE OTHER WITH ODD PARITY, WITH THE MAR FROZEN WITH THE ADDRESS OF A TEST WORD CONTAINING PTA= AND PNA=1

```

-001- 28 # LOAD MAR
-001- 29 # LOAD AND FREEZE THE OFF-LINE MAR WITH 0(000042).
0014070 04 000107 020033 ----- CDGMH VFD 1,0 2,1 7,0 6,NFRZ
0014071 04 000110 000042 ----- -001- 31 VFD 16,0(000042)

-001- 33 # LP_BEGIN
-001- 34 # BEGL. 2 LOOPS.
0014072 04 000111 000201 ----- CDGMH -001- 35 TSTXLP2 VFD 1,0 2,0 7,0(2) 6,NBEGIN

-001- 37 # SEND
-001- 38 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 39 # PARITY IS NORMAL.
0014073 04 000112 147706 ----- CDGMH -001- 40 VFD 1,1 2,2 7,0(D111111) 6,NSEND
0014074 04 000113 000000 000000 -001- 41 ADDR 0(0000000) # LOOP 1
0014076 04 000115 000000 000020 -001- 42 ADDR 0(0000020) # LOOP 2

-001- 44 # MICRO
-001- 45 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 46 # TO FIELD = IBXT FROM FIELD = MC:IBXF
0014100 04 000117 020005 ----- CDGMH -001- 47 VFD 1,0 2,1 7,0 6,NMICRO
0014101 04 000120 143231 ----- -001- 48 VFD 8,IBXT 8,MCHB&F

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C9J-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMH ISSUE 04 PAGE 67

TEST 69 SEGMENT 1

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI

M77D

```

-001- 01 # ZERO_ER
-001- 02 # ZERO THE OFF-LINE ER.
0014102 04 000121 000012 ----- CDGMI -001- 03 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 05 # MICRO
-001- 06 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0014103 04 000122 020005 ----- CDGMI -001- 07 # MISCELLANEOUS CROSSPOINT TXX
0014104 04 000123 144750 ----- -001- 08 VFD 1,0 2,1 7,0 6,NMICRO
-001- 09 VFD 16,TXX

-001- 11 # RETRN
-001- 12 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014105 04 000124 013710 ----- CDGMI -001- 13 VFD 1,0 2,0 7,B(10111111) 6,NRETRN

-001- 15 # COMPARE
-001- 16 # COMPARE ON-LINE MCHB BIT S(MARER) TO CONSTANTS.
0014106 04 000125 120514 ----- CDGMI -001- 17 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014107 04 000126 000000 ----- -001- 18 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(MARER) 6,NCOMPARE
0014110 04 000127 000001 ----- -001- 19 VFD 15,0 1,0 # LOOP 1
-001- 20 VFD 15,0 1,1 # LOOP 2

-001- 22 # FAILTST
-001- 23 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLMPAR.
0014111 04 000130 020017 ----- CDGMI -001- 24 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014112 04 000131 000002 ----- -001- 25 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 26 VFD 16,FLMPAR

-001- 28 # LP_END
-001- 29 # TERMINATE LOOP.
0014113 04 000132 040002 000000 CDGMI -001- 30 VFD 1,0 2,2 7,0 6,NLP_END
0014114 04 000133 000000 014072 0014072 -001- 31 ADDR LPSTART

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 68

TEST 69 SEGMENT 2

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMH

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 69 SEGMENT 2
-001- 04 # *
-001- 05 # *****

```

```

0014116 04 000135 000200 ----- CDGMH -001- 08 VFD 1,0 2,0 2,0 5,D(2) 6,NTESTSEG

```

```

11 # THE PARITY GENERATOR ON THE IB Y FIELD IS TESTED AS THE
12 # X FIELD WAS TESTED IN SEGMENT 1

```

```

-001- 14 # STOP OFF
-001- 15 # SET STOP BIT IN OFF-LINE CU.
0014117 04 000136 017627 ----- CDGMH -001- 16 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

```

```

-001- 18 # LP BEGIN
-001- 19 # BEGIN 16 LOOPS.
0014120 04 000137 002001 ----- CDGMH -001- 20 TSTYLP VFD 1,0 2,0 7,D(16) 6,NBEGIN

```

```

-001- 22 # SEND
-001- 23 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 24 # PARITY IS NORMAL.
0014121 04 000140 147706 ----- CDGMH -001- 25 VFD 1,1 2,2 7,B(0111111) 6,NSEND
0014122 04 000141 000000 000001 -001- 26 ADDR 0(0000001) # LOOP 1
0014124 04 000143 000000 000002 -001- 27 ADDR 0(0000002) # LOOP 2
0014126 04 000145 000000 000004 -001- 28 ADDR 0(0000004) # LOOP 3
0014130 04 000147 000000 000010 -001- 29 ADDR 0(0000010) # LOOP 4
0014132 04 000151 000000 000007 -001- 30 ADDR 0(0000007) # LOOP 5
0014134 04 000153 000000 000013 -001- 31 ADDR 0(0000013) # LOOP 6
0014136 04 000155 000000 000015 -001- 32 ADDR 0(0000015) # LOOP 7
0014140 04 000157 000000 000016 -001- 33 ADDR 0(0000016) # LOOP 8
0014142 04 000161 000000 000003 -001- 34 ADDR 0(0000003) # LOOP 9
0014144 04 000163 000000 000005 -001- 35 ADDR 0(0000005) # LOOP 10
0014146 04 000165 000000 000006 -001- 36 ADDR 0(0000006) # LOOP 11
0014150 04 000167 000000 000011 -001- 37 ADDR 0(0000011) # LOOP 12
0014152 04 000171 000000 000012 -001- 38 ADDR 0(0000012) # LOOP 13
0014154 04 000173 000000 000014 -001- 39 ADDR 0(0000014) # LOOP 14
0014156 04 000175 000000 000017 -001- 40 ADDR 0(0000017) # LOOP 15
0014160 04 000177 000000 000000 -001- 41 ADDR 0(0000000) # LOOP 16

```

```

-001- 43 # MICRO
-001- 44 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 45 # TO FIELD = IBXT FROM FIELD = MCHBZF
0014162 04 000201 020005 ----- CDGMH -001- 46 VFD 1,0 2,1 7,0 6,NMICRO
0014163 04 000202 143231 ----- -001- 47 VFD 8,IBXT 8,MCHBZF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMH ISSUE 04 PAGE 69

TEST 69 SEGMENT 2

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI W77D

```

-001- 01 # ZERO ER
-001- 02 # ZERO THE OFF-LINE ER.
0014164 04 000203 000012 ----- CDGMI VFD 1,0 2,0 7,0 6,NZERO_ER
-001- 03 #
-001- 05 # MICRO
-001- 06 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0014165 04 000204 020005 ----- CDGMI
-001- 07 # MISCELLANEOUS CROSSPOINT TTX
0014166 04 000205 145350 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
-001- 08 #
-001- 09 # VFD 16,TTX
-001- 11 # RETRN
-001- 12 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014167 04 000206 013710 ----- CDGMI VFD 1,0 2,0 7,B(1011111) 6,NRETRN
-001- 13 #
-001- 15 # COMPARE
-001- 16 # COMPARE ON-LINE MCHB BIT S(HARER) TO CONSTANTS.
0014170 04 000207 120514 ----- CDGMI IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
-001- 17 # VFD 1,LINDX 2,1 1,0 1,SUCCESS 5,S(HARER) 6,NCOMPARE
0014171 04 000210 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 1
0014172 04 000211 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 2
0014173 04 000212 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 3
0014174 04 000213 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 4
0014175 04 000214 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 5
0014176 04 000215 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 6
0014177 04 000216 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 7
0014200 04 000217 000001 ----- CDGMI VFD 15,0 1,1 # LOOP 8
0014201 04 000220 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 9
0014202 04 000221 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 10
0014203 04 000222 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 11
0014204 04 000223 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 12
0014205 04 000224 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 13
0014206 04 000225 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 14
0014207 04 000226 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 15
0014210 04 000227 000000 ----- CDGMI VFD 15,0 1,0 # LOOP 16
-001- 36 # FAILTST
-001- 37 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLYPAR.
0014211 04 000230 020017 ----- CDGMI DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014212 04 000231 000003 ----- CDGMI VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 39 # VFD 16,FLYPAR
-001- 40 #
-001- 42 # LP_END
-001- 43 # TERMINATE LOOP.
0014213 04 000232 040002 000000 CDGMI VFD 1,0 2,2 7,0 6,NLP_END
0014214 04 000233 000000 014120 0014120 CDGMI ADDR LPSTART
-001- 45 #

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 70

D02

TEST 69 SEGMENT 2

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI

W77D

0014216 04 000235 017627 ----- CDGMI

-001- 01 # STOP_OFF
-001- 02 # SET STOP BIT IN OFF-LINE CU.
-001- 03 VFD 1,0 2,0 7,B(11111110) 6,NSTOP

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 71

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI

W770

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 69 SEGMENT 3
-001- 04 # *
-001- 05 # *****

```

0014217 04 000236 000300 ----- CDGMI -001- 08 VFD 1,0 2,0 2,0 5,D(3) 6,NTESTSEG

```

11 # WHEN THE IB IS LOADED EITHER FROM THE BUS OR FROM THE
12 # SIR, A CHECK IS MADE ON THE PARITY OF THE X AND Y FIELDS.
13 # THE OUTPUT OF THE TWO PARITY GENERATORS WHICH WERE TESTED
14 # IN SEGMENTS 1 AND 2 ARE COMBINED AND COMPARED WITH PL.
15 # LACK OF AGREEMENT SETS ERROR BIT "IBER". THIS FUNCTION IS
16 # CHECKED USING ALL 8 COMBINATIONS OF X PARITY, Y PARITY AND PL.

```

0014220

18

```

# THE GATING SIR==>IB TAKES PLACE WHEN
THE NEXT ADDRESS FIELD OF THE MICRO
STORE IS ALL ZEROS. NO INTERRUPTS ARE
PRESENT AND DR=1. IN THE STOP STATE,
NEXT ADDRESS IS ALL OS. BIN IS SET
BEFORE EVERY DIAGNOSTIC.

```

```

-001- 24 # LP BEGIN
-001- 25 # BEGIN 4 LOOPS.
0014220 04 000237 000401 ----- CDGMI -001- 26 LDIBLP1 VFD 1,0 2,0 7,D(4) 6,NBEGIN

```

```

-001- 28 # MICRO
-001- 29 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 30 # MISCELLANEOUS CROSSPOINT SDRX
0014221 04 000240 020005 ----- CDGMI -001- 31 VFD 1,0 2,1 7,0 6,NMICRO
0014222 04 000241 015471 ----- -001- 32 VFD 16,SDRX

```

```

-001- 34 # MICRO
-001- 35 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 36 # MISCELLANEOUS CROSSPOINT ZBRX
0014223 04 000242 020005 ----- CDGMI -001- 37 VFD 1,0 2,1 7,0 6,NMICRO
0014224 04 000243 025712 ----- -001- 38 VFD 16,ZBRX

```

```

-001- 40 # MICRO
-001- 41 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 42 # TO FIELD = SIXXT FROM FIELD = BRXF
0014225 04 000244 020005 ----- CDGMI -001- 43 VFD 1,0 2,1 7,0 6,NMICRO
0014226 04 000245 017342 ----- -001- 44 VFD 8,SIXXT 8,BRXF

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 72

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGM1

W77D

```

-001- 01 # ZERO_ER
-001- 02 # ZERO THE OFF-LINE ER.
0014227 04 000246 000012 ----- CDGMN -001- 03 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 05 # SEND
-001- 06 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 07 # PARITY IS 0(2).
0014230 04 000247 147707 ----- CDGMN -001- 08 VFD 1,1 2,2 7,B(0111111) 6,N2SEND
0014231 04 000250 000040 000000 -001- 09 ADDR 0(0000000),0(2) # LOOP 1
0014233 04 000252 000040 000001 -001- 10 ADDR 0(0000001),0(2) # LOOP 2
0014235 04 000254 000040 000020 -001- 11 ADDR 0(0000020),0(2) # LOOP 3
0014237 04 000256 000040 000021 -001- 12 ADDR 0(0000021),0(2) # LOOP 4

-001- 14 # MICRO
-001- 15 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 16 # TO FIELD = SIRXT FROM FIELD = MCHBXF
0014241 04 000260 020005 ----- CDGMN -001- 17 VFD 1,0 2,1 7,0 6,NMICRO
0014242 04 000261 017231 ----- -001- 18 VFD 8,SIRXT 8,MCHBXF

-001- 20 # SEND
-001- 21 # SEND 0(0000100) TO OFF-LINE MCHB.
-001- 22 # PARITY IS NORMAL.
0014243 04 000262 047706 ----- CDGMN -001- 23 VFD 1,0 2,2 7,B(0111111) 6,NSEND
0014244 04 000263 000000 000100 -001- 24 ADDR 0(0000100)

-001- 26 # MICRO
-001- 27 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 28 # TO FIELD = MSXT FROM FIELD = MCHBXF
0014246 04 000265 020005 ----- CDGMN -001- 29 VFD 1,0 2,1 7,0 6,NMICRO
0014247 04 000266 106631 ----- -001- 30 VFD 8,MSXT 8,MCHBXF

-001- 32 # RETRN
-001- 33 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014250 04 000267 013710 ----- CDGMN -001- 34 VFD 1,0 2,0 7,B(0111111) 6,NRETRN

-001- 36 # COMPARE
-001- 37 # COMPARE ON-LINE MCHB BIT S(1BER) TO CONSTANTS.
-001- 38 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014251 04 000270 120214 ----- CDGMN -001- 39 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(1BER) 6,NCOMPARE
0014252 04 000271 000001 ----- -001- 40 VFD 15,0 1,1 # LOOP 1
0014253 04 000272 000000 ----- -001- 41 VFD 15,0 1,0 # LOOP 2
0014254 04 000273 000000 ----- -001- 42 VFD 15,0 1,0 # LOOP 3
0014255 04 000274 000001 ----- -001- 43 VFD 15,0 1,1 # LOOP 4

-001- 45 # FAILTST
-001- 46 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLIBCK.
0014256 04 000275 020017 ----- CDGMN -001- 47 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014257 04 000276 000004 ----- -001- 48 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 49 VFD 16,FLIBCK

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGM1

ISSUE 04

PAGE 73

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI W77D

```

-001- 02 # ZERO MS
-001- 03 # ZERO THE OFF-LINE MS REGISTER.
0014260 04 000277 000042 ----- CDGMI VFD 1,0 2,0 7,0 6,NCLRMS
-001- 04 #

-001- 06 # LP END
-001- 07 # TERMINATE LOOP.
0014261 04 000300 040002 000000 CDGMI VFD 1,0 2,2 7,0 6,NLP_END
0014262 04 000301 000000 014220 0014220 -001- 08 # ADDR LPSTART
-001- 09 #

-001- 11 # LP BEGIN
-001- 12 # BEGIN 4 LOOPS.
0014264 04 000303 000401 ----- CDGMI -001- 13 LDI BLP2 VFD 1,0 2,0 7,D(4) 6,NBEGIN
-001- 15 # MICRO
-001- 16 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 17 # MISCELLANEOUS CROSSPOINT SDRX
0014265 04 000304 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014266 04 000305 015471 ----- -001- 18 # VFD 16,SDRX
-001- 19 #

-001- 21 # MICRO
-001- 22 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 23 # MISCELLANEOUS CROSSPOINT ZBRX
0014267 04 000306 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014270 04 000307 025712 ----- -001- 24 # VFD 16,ZBRX
-001- 25 #

-001- 27 # MICRO
-001- 28 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 29 # TO FIELD = S1RXT FROM FIELD = BRXF
0014271 04 000310 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014272 04 000311 017342 ----- -001- 30 # VFD 8,S1RXT 8,BRXF
-001- 31 #

-001- 33 # ZERO ER.
-001- 34 # ZERO THE OFF-LINE ER.
0014273 04 000312 000012 ----- CDGMI VFD 1,0 2,0 7,0 6,NZERO_ER
-001- 35 #

-001- 37 # SEND
-001- 38 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 39 # PARITY IS 0(3).
0014274 04 000313 147707 ----- CDGMI VFD 1,1 2,2 7,0(0111111) 6,N2SEND
0014275 04 000314 000060 000000 -001- 40 # ADDR 0(000000),0(3) # LOOP 1
0014277 04 000316 000060 000001 -001- 41 # ADDR 0(000001),0(3) # LOOP 2
0014301 04 000320 000060 000020 -001- 42 # ADDR 0(000002),0(3) # LOOP 3
0014303 04 000322 000060 000021 -001- 43 # ADDR 0(000003),0(3) # LOOP 4
-001- 44 #

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

74

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI

W77D

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = SIRXT FROM FIELD = MCHBXF
0014305 04 000324 020005 ----- CDGNM -001- 04 VFD 1,0 2,1 7,0 6,NMICRO
0014306 04 000325 017231 ----- -001- 05 VFD 8,SIRXT 8,MCHBXF

-001- 07 # SEND
-001- 08 # SEND 0(0000100) TO OFF-LINE MCHB.
-001- 09 # PARITY IS NORMAL.
0014307 04 000326 047706 ----- CDGNM -001- 10 VFD 1,0 2,2 7,0 6,NSEND
0014310 04 000327 000000 000100 -001- 11 ADDR 0(0000100)

-001- 13 # MICRO
-001- 14 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 15 # TO FIELD = MSXT FROM FIELD = MCHBXF
0014312 04 000331 020005 ----- CDGNM -001- 16 VFD 1,0 2,1 7,0 6,NMICRO
0014313 04 000332 106631 ----- -001- 17 VFD 8,MSXT 8,MCHBXF

-001- 19 # RETRN
-001- 20 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014314 04 000333 013710 ----- CDGNM -001- 21 VFD 1,0 2,0 7,0 6,NRETRN

-001- 23 # COMPARE
-001- 24 # COMPARE ON-LINE MCHB BIT S(1BER) TO CONSTANTS.
-001- 25 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014315 04 000334 120214 ----- CDGNM -001- 26 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(1BER) 6,NCOMPARE
0014316 04 000335 000000 ----- -001- 27 VFD 15,0 1,0 # LOOP 1
0014317 04 000336 000001 ----- -001- 28 VFD 15,0 1,1 # LOOP 2
0014320 04 000337 000001 ----- -001- 29 VFD 15,0 1,1 # LOOP 3
0014321 04 000340 000000 ----- -001- 30 VFD 15,0 1,0 # LOOP 4

-001- 32 # FAILTST
-001- 33 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLIBCK.
-001- 34 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014322 04 000341 020017 ----- CDGNM -001- 35 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0014323 04 000342 000004 ----- -001- 36 VFD 16,FLIBCK

-001- 38 # ZERO MS
-001- 39 # ZERO THE OFF-LINE MS REGISTER.
0014324 04 000343 000042 ----- CDGNM -001- 40 VFD 1,0 2,0 7,0 6,NLCRMS

-001- 42 # LP END
-001- 43 # TERMINATE LOOP.
0014325 04 000344 040002 000000 CDGNM -001- 44 VFD 1,0 2,2 7,0 6,NLP_END
0014326 04 000345 000000 014264 0014264 -001- 45 ADDR LPSTART

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE

75

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGMI W77D

```

0014330                                01                                # THE CHECK SHOULD ALSO BE PERFORMED
                                                                WHEN THE IB IS LOADED FROM THE BUS

-001- 03 # MICRO
-001- 04 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 05 # MISCELLANEOUS CROSSPOINT ZDRX
0014330 04 000347 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014331 04 000350 015472 ----- -001- 06 VFD 16,ZDRX
-001- 07

-001- 09 # LP_BEGIN
-001- 10 # BEGIN 2 LOOPS.
0014332 04 000351 000201 ----- CDGMI -001- 11 LPLDIB3 VFD 1,0 2,0 7,0(2) 6,NBEGIN
0014333                                13                                # CLERR OUT BAD PARITY CONSTANT

-001- 14 # MICRO
-001- 15 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 16 # MISCELLANEOUS CROSSPOINT ZDRX
0014333 04 000352 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014334 04 000353 015472 ----- -001- 17 VFD 16,ZDRX
-001- 18

-001- 20 # MICRO
-001- 21 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 22 # MISCELLANEOUS CROSSPOINT ZDRX
0014335 04 000354 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014336 04 000355 025712 ----- -001- 23 VFD 16,ZDRX
-001- 24

-001- 26 # MICRO
-001- 27 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 28 # TO FIELD = SIXTX FROM FIELD = BRXF
0014337 04 000356 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014340 04 000357 017342 ----- -001- 29 VFD 8,SIXTX 8,BRXF
-001- 30

-001- 32 # MICRO
-001- 33 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 34 # TO FIELD = IBTX FROM FIELD = BRXF
0014341 04 000360 020005 ----- CDGMI VFD 1,0 2,1 7,0 6,NMICRO
0014342 04 000361 143342 ----- -001- 35 VFD 8,IBTX 8,BRXF
-001- 36

-001- 38 # ZERO_ER
-001- 39 # ZERO THE OFF-LINE ER.
0014343 04 000362 000012 ----- CDGMI VFD 1,0 2,0 7,0 6,NZERO_ER
-001- 40

-001- 42 # SEND
-001- 43 # SEND CONSTANTS TO OFF-LINE HCHB.
-001- 44 # PARITY IS 0(2).
0014344 04 000363 147707 ----- CDGMI VFD 1,1 2,2 7,0(0111111) 6,NZSEND
0014345 04 000364 000040 000000 -001- 45 ADDR 0(0000000),0(2) # LOOP 1
0014347 04 000366 000040 000001 -001- 46 ADDR 0(0000001),0(2) # LOOP 2
-001- 47

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 76

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CGNM

W770

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = IBXT FROM FIELD = MCHBXF
0014351 04 000370 020005 ----- CGNM -001- 04 VFD 1,0 2,1 7,0 6,NMICRO
0014352 04 000371 143231 ----- -001- 05 VFD 8,IBXT 8,MCHBXF

-001- 07 # RETRN
-001- 08 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014353 04 000372 013710 ----- CGNM -001- 09 VFD 1,0 2,0 7,8(1011111) 6,NRETRN

-001- 11 # COMPARE
-001- 12 # COMPARE ON-LINE MCHB BIT S(IBER) TO CONSTANTS.
-001- 13 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014354 04 000373 120214 ----- CGNM -001- 14 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(IBER) 6,NCOMPARE
0014355 04 000374 000001 ----- -001- 15 VFD 15,0 1,1 # LOOP 1
0014356 04 000375 000000 ----- -001- 16 VFD 15,0 1,0 # LOOP 2

-001- 18 # FAILTST
-001- 19 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLPGIB.
0014357 04 000376 020017 ----- CGNM -001- 20 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014360 04 000377 000005 ----- -001- 21 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 22 VFD 16,FLPGIB

-001- 24 # LP_END
-001- 25 # TERMINATE LOOP.
0014361 04 000400 040002 000000 CGNM -001- 26 VFD 1,0 2,2 7,0 6,NLP_END
0014362 04 000401 000000 014332 0014332 -001- 27 ADDR LPSTART

0014364 # CLEAR OUT BAD PARITY CONSTANT

-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 31 # MISCELLANEOUS CROSSPOINT ZDRX
0014364 04 000403 020005 ----- CGNM -001- 32 VFD 1,0 2,1 7,0 6,NMICRO
0014365 04 000404 015472 ----- -001- 34 VFD 16,ZDRX

-001- 36 # MICRO
-001- 37 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 38 # MISCELLANEOUS CROSSPOINT ZBRX
0014366 04 000405 020005 ----- CGNM -001- 39 VFD 1,0 2,1 7,0 6,NMICRO
0014367 04 000406 025712 ----- -001- 40 VFD 16,ZBRX

-001- 42 # MICRO
-001- 43 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 44 # TO FIELD = SIBXT FROM FIELD = BRXF
0014370 04 000407 020005 ----- CGNM -001- 45 VFD 1,0 2,1 7,0 6,NMICRO
0014371 04 000410 017342 ----- -001- 46 VFD 8,SIBXT 8,BRXF

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CGNM

ISSUE 04

PAGE 77

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGHI W77D

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = IBXT FROM FIELD = BRXF
0014372 04 000411 020005 ----- CDGNM -001- 04 VFD 1,0 2,1 7,0 6,NMICRO
0014373 04 000412 143342 ----- -001- 05 VFD 8,IBXT 8,BRXF

0014374 07 # THE LNOP SIGNAL SHOULD BLOCK THE CHECK

-001- 09 # MICRO
-001- 10 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 11 # MISCELLANEOUS CROSSPOINT SDRX
0014374 04 000413 020005 ----- CDGNM -001- 12 VFD 1,0 2,1 7,0 6,NMICRO
0014375 04 000414 015471 ----- -001- 13 VFD 16,SDRX

-001- 15 # SEND
-001- 16 # SEND 0(0000000) TO OFF-LINE MCHB.
-001- 17 # PARITY IS 0(2).
0014376 04 000415 047707 ----- CDGNM -001- 18 VFD 1,0 2,2 7,0(0111111) 6,N2SEND
0014377 04 000416 000040 000000 -001- 19 ADDR 0(0000000),0(2)

-001- 21 # MICRO
-001- 22 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 23 # TO FIELD = SIRXT FROM FIELD = MCHBXF
0014401 04 000420 020005 ----- CDGNM -001- 24 VFD 1,0 2,1 7,0 6,NMICRO
0014402 04 000421 017231 ----- -001- 25 VFD 8,SIRXT 8,MCHBXF

-001- 27 # RETRN
-001- 28 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0014403 04 000422 013710 ----- CDGNM -001- 29 VFD 1,0 2,0 7,0(1011111) 6,NRETRN

-001- 31 # COMPARE
-001- 32 # COMPARE ON-LINE MCHB BIT S(IBER) TO 0.
-001- 33 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0014404 04 000423 020214 ----- CDGNM -001- 34 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(IBER) 6,NCOMPARE
0014405 04 000424 000000 ----- -001- 35 VFD 15,0 1,0

-001- 37 # FAILTST
-001- 38 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLNPOI.
-001- 39 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0014406 04 000425 020017 ----- CDGNM -001- 40 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0014407 04 000426 000006 ----- -001- 41 VFD 16,FLNPOI

-001- 43 # PASSTST
-001- 44 # GO TO DIAGNOSTIC MONITOR PASS BRANCH.
0014410 04 000427 000021 ----- CDGNM -001- 45 VFD 1,0 2,0 7,0 6,NPASSTST

```

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGHI ISSUE 04 PAGE 78

E03

TEST 69 SEGMENT 3

22:59:51 2/05/81 ****

IB_X_AND_Y_FIELD_PARITY_GENERATOR DIAGNOSTIC TEST

CDGHI

W77D

01 CMINTERP MAXSIZE 0,133
02 CMTMSCXP MAXSIZE 0,722
03 CBUSPAR MAXSIZE 0,407
04 CPOXTPAR MAXSIZE 0,430

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGHI

ISSUE 04 PAGE 79

PATCH HISTORY

22:59:51 2/05/81 ****

LISTING OF INDIVIDUAL PATCHES

CDGMI W770

' ***/**/013323/**/**

-002- 01 PBEGIN PROG=CDGMI TRNO=13323 SERNOB=49321
 02 # THIS PATCH WILL MAKE CU DIAGNOSTIC TEST 66 IMMUNE TO LONG
 03 # INTERRUPTS SUCH AS THOSE SEEN IN ETS APPLICATION.
 04 # THIS PATCH COORDINATES WITH TR 13324 TC 49503
 05 TCEND
 -001- 06 NOTE *****

0014410

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 80

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

LISTING OF INDIVIDUAL PATCHES

CDGMI

W77D

0014410

```

-001- 03 #8 TBL 6501
-001- 04 #8 TEST 65
-001- 05 #8 SEGMENT 1
-001- 06 #8 PR CDGMI
-001- 07 #
08 # THE MICROINTERPRET MODE HAS FAILED. EITHER BOTH THE "TO"
09 # AND "FROM" ERROR BITS WERE SET OR NEITHER ERROR BIT
10 # WAS SET BUT NO MICROINSTRUCTIONS WERE PROCESSED.
11
12 # PROC 02-32 FA1022 MICRO CONTROL 7
13 # MICROINTERPRET CONTROL CIRCUITRY
14 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11
15 # "MINT" BIT IS BIT 11 IN SS REGISTER
16 # NOTE--3 DMA 02-03 FB6 FUSE BOARD-STORE ERROR AND PARITY
17 # HASCM 08-04 FA1060 MAIN STORE CONTROLLER - BITS 2 & 10

```

0014410

```

-001- 20 #8 TBL 6502
-001- 21 #8 TEST 65
-001- 22 #8 SEGMENT 1
-001- 23 #8 PR CDGMI
-001- 24 #
25 # A "TO" FIELD ERROR HAS OCCURRED WHILE IN THE MICROINTERPRET
26 # MODE BUT A "FROM" FIELD ERROR HAS NOT OCCURRED. THE DEDICATED
27 # GATING PATH SIR==>IB IS FAULTY.
28
29 # PROC 02-09 FA1024 SPECIAL REGISTERS BITS 1 AND 9
30 # PROC 02-10 FA1024 SPECIAL REGISTERS BITS 2 AND 10
31 # PROC 02-08 FA1024 SPECIAL REGISTERS BITS 0 AND 8
32 # PROC 02-11 FA1024 SPECIAL REGISTERS BITS 3 AND 11
33 # PROC 02-12 FA1024 SPECIAL REGISTERS BITS 4 AND 12
34 # PROC 02-13 FA1024 SPECIAL REGISTERS BITS 5 AND 13
35 # PROC 02-16 FA1024 SPECIAL REGISTERS BITS 6 AND 14
36 # PROC 02-17 FA1024 SPECIAL REGISTERS BITS 7 AND 15

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 81

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6503 FLMI6TFM

CDGMI W77D

0014410

```

-001- 01 ## TBL 6503
-001- 02 ## TEST 65
-001- 03 ## SEGMENT 1
-001- 04 ## PR CDGMI
-001- 05 #
06 # A "FROM" FIELD ERROR HAS OCCURRED WHILE IN THE MICROINTERPRET
07 # MODE BUT A "TO" FIELD ERROR HAS NOT OCCURRED. THE DEDICATED
08 # GATING PATH SIR==>IB IS FAULTY.
09 #
10 # PROC 02-08 FA1024 SPECIAL REGISTERS BITS 0 AND 8
11 # PROC 02-09 FA1024 SPECIAL REGISTERS BITS 1 AND 9
12 # PROC 02-10 FA1024 SPECIAL REGISTERS BITS 2 AND 10
13 # PROC 02-11 FA1024 SPECIAL REGISTERS BITS 3 AND 11
14 # PROC 02-12 FA1024 SPECIAL REGISTERS BITS 4 AND 12
15 # PROC 02-13 FA1024 SPECIAL REGISTERS BITS 5 AND 13
16 # PROC 02-16 FA1024 SPECIAL REGISTERS BITS 6 AND 14
17 # PROC 02-17 FA1024 SPECIAL REGISTERS BITS 7 AND 15

```

0014410

```

-001- 20 ## TBL 6504
-001- 21 ## TEST 65
-001- 22 ## SEGMENT 2
-001- 23 ## PR CDGMI
-001- 24 #
25 # THE MICROINTERPRET BIT HAS FAILED TO INHIBIT THE LOADING
26 # OF A NEW OP INTO THE IB.
27 #
28 # PROC 02-33 FA1018 MICRO CONTROL 3
29 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11
30 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 82

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6601 FLMCSO

CDGMI W77D

-001- 01 #8 TBL 6601
 -001- 02 #8 TEST 66
 -001- 03 #8 SEGMENT 1
 -001- 04 #8 PR CDGMI
 -001- 05 #
 06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 07 # SUB-FIELD=0 AND THE MICRO CONTROL STATUS REGISTER
 08 # WAS AFFECTED. ONE OF THE FOLLOWING CROSSPOINTS FIRED THOUGH
 09 # IT SHOULD NOT HAVE:
 10 # ZRU OPFXDS ZCF DSXCF SDS STR1 STR2 TPAR SDR
 11 # SI ZOPF TCH TINT TFLZ TMCH
 12 #
 13 # PROC 06-32 FA1019 MICRO CONTROL 4
 14 # PROC 06-35 FA1021 MICRO CONTROL 6
 15 # THE CROSSPOINT DECODING AND MCS ARE ON THESE BOARDS
 16 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
 17 # "TMCH" CROSSPOINT DECODING

0014410

-001- 20 #8 TBL 6602
 -001- 21 #8 TEST 66
 -001- 22 #8 SEGMENT 1
 -001- 23 #8 PR CDGMI
 -001- 24 #
 25 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 26 # SUB-FIELD=0 AND THE BR COPY 0 WAS AFFECTED. ONE OF THE FOLLOWING
 27 # CROSSPOINTS FIRED WHEN IT SHOULD NOT HAVE:
 28 # ABRO ABR4 ABR12 SBR ZBR
 29 #
 30 # PROC 06-26 FA1015 DMLO ROTATE AND PARITY GENERATOR
 31 # PROC 06-27 FA1012 DMLO BITS 00-07
 32 # PROC 06-25 FA1012 DMLO BITS 08-15
 33 # PROC 06-28 FA1014 DMLO BITS 16-19

0014410

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 83

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6603 ROT80

CDGMI W77D

-001- 01 #8 TBL 6603
 -001- 02 #8 TEST 66
 -001- 03 #8 SEGMENT 1
 -001- 04 #8 PR CDGMI
 -001- 05 #

06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 07 # SUB-FIELD=0 AND THE AR COPY 0 WAS AFFECTED. ONE OF THE FOLLOWING
 08 # CROSSPOINTS FIRED WHEN IT SHOULD NOT HAVE:
 09 # BAR0 BAR1 BAR2 BAR3

11 # PROC 06-26 FA1015 DML0 ROTATE AND PARITY GENERATOR
 12 # PROC 06-27 FA1012 DML0 BITS 00-07
 13 # PROC 06-25 FA1012 DML0 BITS 08-15
 14 # PROC 06-28 FA1014 DML0 BITS 16-19

-001- 17 #8 TBL 6604
 -001- 18 #8 TEST 66
 -001- 19 #8 SEGMENT 1
 -001- 20 #8 PR CDGMI
 -001- 21 #

22 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 23 # SUB-FIELD=0 AND THE AR OR BR COPY 1 WAS AFFECTED. ONE OF
 24 # THE FOLLOWING CROSSPOINTS FIRED WHEN IT SHOULD NOT HAVE:
 25 # ABR0 ABR4 ABR12 SBR ZBR BAR0 BAR1 BAR2 BAR3
 26 #

27 # PROC 06-23 FA1015 DML1 ROTATE AND PARITY GENERATOR
 28 # PROC 06-24 FA1012 DML1 BITS 00-07
 29 # PROC 06-22 FA1012 DML1 BITS 08-15
 30 # PROC 06-21 FA1013 DML1 BITS 16-19

0014410

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 84

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6605 FLMI

CDGMI

W77D

0014410

-001- 01 #8 TBL 6605
 -001- 02 #8 TEST 66
 -001- 03 #8 SEGMENT 1
 -001- 04 #8 PR CDGMI
 -001- 05 #
 06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 07 # SUB-FIELD=0. THE MICROINTERPRET BIT WAS CLEARED WHEN IT
 08 # SHOULD NOT HAVE BEEN.
 09 #
 10 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
 11 # DECODING OF ZMINT CROSSPOINT

0014410

-001- 14 #8 TBL 6606
 -001- 15 #8 TEST 66
 -001- 16 #8 SEGMENT 1
 -001- 17 #8 PR CDGMI
 -001- 18 #
 19 # A SERIES OF MISCELLANEOUS CROSSPOINTS WAS TRIED WITH ONE
 20 # SUB-FIELD = 0 AND THE STP BIT IN THE S5 WAS SET. ONE
 21 # OF THE FOLLOWING CROSSPOINTS FIRED BUT SHOULD NOT HAVE.
 22 # SSTP STPASH
 23 #
 24 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 25 # DECODING OF CROSSPOINTS SSTP AND STPASH

0014410

-001- 28 #8 TBL 6607
 -001- 29 #8 TEST 66
 -001- 30 #8 SEGMENT 1
 -001- 31 #8 PR CDGMI
 -001- 32 #
 33 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 34 # SUB-FIELD=0. THE MMSR WAS AFFECTED. EITHER THE SRW OR
 35 # BRXMS CROSSPOINT FIRED BUT SHOULD NOT HAVE.
 36 #
 37 # PROC 02-21 FA1029 MAIN STORE CONTROL 0
 38 # PROC 02-22 FA1029 MAIN STORE CONTROL 1

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 85

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6608 FLDML1CR

CDGMI W770

-001- 01 #8 TBL 6608
 -001- 02 #8 TEST 66
 -001- 03 #8 SEGMENT 1
 -001- 04 #8 PR CDGMI
 -001- 05 #
 06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 07 # SUB-FIELD=0. THE CR WAS AFFECTED. THE DML1CR FIRED BUT
 08 # SHOULD NOT HAVE
 09 #
 10 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 11 # DECODING OF DML1CR CROSSPOINT

0014410

-001- 14 #8 TBL 6609
 -001- 15 #8 TEST 66
 -001- 16 #8 SEGMENT 1
 -001- 17 #8 PR CDGMI
 -001- 18 #
 19 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 20 # SUB-FIELD=0. R11 WAS AFFECTED BY THE IODXR11 CROSSPOINT
 21 # WHICH SHOULD NOT HAVE FIRED.
 22 #
 23 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 24 # DECODING OF IODXR11 CROSSPOINT

0014410

-001- 27 #8 TBL 6610
 -001- 28 #8 TEST 66
 -001- 29 #8 SEGMENT 1
 -001- 30 #8 PR CDGMI
 -001- 31 #
 32 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 33 # SUB-FIELD=0. THE IOD OF THE CHANNEL DESIGNATED IN R9
 34 # WAS AFFECTED BY THE MD6RAIO OR MDSEIOS CROSSPOINT WHICH SHOULD
 35 # NOT HAVE FIRED
 36 #
 37 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
 38 # DECODING OF MD6RAIO AND MDSEIOS CROSSPOINTS
 39 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 40 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
 41 # NOTE--3 CTI 02-06 FA1213 CTI BOARD 3
 42 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL
 43 # NOTE--3 CTI 02-10 FA1211 CTI BOARD 4
 44 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL
 45 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11
 46 # PROC 06-11 FA1010 GENERAL REGISTERS BITS 2 AND 10
 47 # PROC 06-13 FA1010 GENERAL REGISTERS BITS 4 AND 12
 48 # PROC 06-17 FA1010 GENERAL REGISTERS BITS 7 AND 15
 49 # NOTE--3 DMA 02-19 FC385 DMA ADD ONE CIRCUIT

0014410

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 86

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6610 FLRA10

CDGMI

W770

01 # NOTE--3 DMA 02-26 FC387 DMA CONTROL CIRCUIT
 02 # NOTE--3 DMA 02-21 FC390 DMA STATUS BOARD 1
 03 # NOTE--3 DMA 02-24 FC391 DMA STATUS BOARD 2
 04 # PROC 06-09 FA1010 GENERAL REGISTERS BITS 0 AND 8
 05 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9
 06 # PROC 06-14 FA1010 GENERAL REGISTERS BITS 5 AND 13
 07 # PROC 06-16 FA1010 GENERAL REGISTERS BITS 6 AND 14
 08 # NOTE--3 DMA 02-12 FB382 DMA REGISTER BITS 2, 6, 10, 14
 09 # NOTE--3 DMA 02-10 FC382 DMA REGISTER BITS 3, 7, 11, 15
 10 # NOTE--3 DMA 02-08 FC384 DMA REGISTER BITS PL, PH

-001- 13 #B TBL 6611
 -001- 14 #B TEST 66
 -001- 15 #B SEGMENT 1
 -001- 16 #B PR CDGMI
 -001- 17 #

18 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 19 # SUB-FIELD=0. THE IOS OF THE I/O CHANNEL DESIGNATED IN
 20 # R9 WAS AFFECTED. ONE OF THE FOLLOWING CROSSPOINTS FIRED
 21 # BUT SHOULD NOT HAVE:
 22 # MD1CHTN MD2CHTN MD3CHC

0014410

23 #
 24 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
 25 # DECODING OF ABOVE CROSSPOINTS
 26 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL
 27 # PROC 06-09 FA1010 GENERAL REGISTERS BITS 0 AND 8
 28 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9
 29 # PROC 06-11 FA1010 GENERAL REGISTERS BITS 2 AND 10
 30 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 87

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6612 FLSD8

CDGMI W77D

0014410

-001- 01 #& TBL 6612
 -001- 02 #& TEST 66
 -001- 03 #& SEGMENT 1
 -001- 04 #& PR CDGMI
 -001- 05 #
 06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 07 # SUB-FIELD=0 AND THE DB WAS AFFECTED. ONE OF THE FOLLOWING
 08 # CROSSPOINTS FIRED BUT SHOULD NOT HAVE:
 09 # SIS1XDB SIS2XDB SIS3XDB
 10 #
 11 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 12 # DECODING OF SIS1XDB AND SIS2XDB
 13 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
 14 # DECODING OF SIS3XDB

0014410

-001- 17 #& TBL 6613
 -001- 18 #& TEST 66
 -001- 19 #& SEGMENT 2
 -001- 20 #& PR CDGMI
 -001- 21 #
 22 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 23 # SUB-FIELD=0 AND THE MICRO CONTROL STATUS REGISTER
 24 # WAS AFFECTED. ONE OF THE FOLLOWING CROSSPOINTS FIRED THOUGH
 25 # IT SHOULD NOT HAVE:
 26 # SOPF SCF ZDS ZI ZDR ZTR1 ZTR2 SDR TBRD
 27 #
 28 # PROC 06-32 FA1019 MICRO CONTROL 4
 29 # PROC 06-35 FA1021 MICRO CONTROL 6
 30 # THE CROSSPOINT DECODING AND MCS ARE ON THESE BOARDS
 31 # PROC 02-33 FA1018 MICRO CONTROL 3

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 88

TROUBLE LOCATION MANUAL

6614 FLEX

CDGMI

W77D

0014410

-001- 01 ## TBL 6614
 -001- 02 ## TEST 66
 -001- 03 ## SEGMENT 2
 -001- 04 ## PR CDGMI
 -001- 05 #
 06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WERE TRIED WITH ONE
 07 # SUB-FIELD=0. THE IB WAS AFFECTED BY THE EXEC CROSSPOINT
 08 # WHICH SHOULD NOT HAVE FIRED.
 09 #
 10 # PROC 06-35 FA1021 MICRO CONTROL 6
 11 # DECODING OF EXEC CROSSPOINT

0014410

-001- 14 ## TBL 6615
 -001- 15 ## TEST 66
 -001- 16 ## SEGMENT 2
 -001- 17 ## PR CDGMI
 -001- 18 #
 19 # A SERIES OF MISCELLANEOUS CROSSPOINTS WAS TRIED WITH ONE
 20 # SUB-FIELD=0. S1R1 WAS AFFECTED BY THE SIBXS1R1 WHICH
 21 # SHOULD NOT HAVE FIRED.
 22 #
 23 # PROC 06-32 FA1019 MICRO CONTROL 4
 24 # DECODING OF SIBXS1R1 CROSSPOINT

0014410

-001- 27 ## TBL 6616
 -001- 28 ## TEST 66
 -001- 29 ## SEGMENT 2
 -001- 30 ## PR CDGMI
 -001- 31 #
 32 # A SERIES OF MISCELLANEOUS CROSSPOINTS WAS TRIED WITH ONE
 33 # SUB-FIELD=0. THE I/O CHANNELS WERE DISABLED BY THE SDIS
 34 # CROSSPOINT WHICH SHOULD NOT HAVE FIRED.
 35 #
 36 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 37 # DECODING OF SDIS CROSSPOINT
 38 # PROC 04-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
 39 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 89

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6617 FLTIN

CDGMI W77D

0014410

-001- 01 #8 TBL 6617
 -001- 02 #8 TEST 66
 -001- 03 #8 SEGMENT 3
 -001- 04 #8 PR CDGMI
 -001- 05 #
 06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WAS TRIED WITH ONE
 07 # SUB-FIELD = 0 AND THE TI WAS AFFECTED. ONE OF THE FOLLOWING
 08 # CROSSPOINTS FIRED BUT SHOULD NOT HAVE:
 09 # BRXTI ZPT INCTC
 10 #
 11 #
 12 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 13 # DECODING OF BRXTI AND INCTC
 14 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
 15 # DECODING OF ZPT
 16 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER
 17 # TIMER BOARD HAS NOT BEEN DIAGNOSED YET
 18 # PROC 02-23 FA1046 DOUBLE STORE READ
 19 # SUBFIELDS OF THESE CROSSPOINTS ARE BUFFERED
 20 # ON THIS BOARD
 PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11

0014410

-001- 23 #8 TBL 6618
 -001- 24 #8 TEST 66
 -001- 25 #8 SEGMENT 3
 -001- 26 #8 PR CDGMI
 -001- 27 #
 28 # A SERIES OF MISCELLANEOUS CROSSPOINTS WAS TRIED WITH ONE
 29 # SUB-FIELD = 0. THE BTC BIT WAS SET BY THE SBTC
 30 # CROSSPOINT WHICH SHOULD NOT HAVE FIRED.
 31 #
 32 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 33 # DECODING OF SBTC
 34 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11
 35 # BTC BIT
 36 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11
 37 # BTC BIT

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI . ISSUE 04 PAGE 90

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6619 FLZER

CDGMI

W77D

0014410

-001- 01 #& TBL 6619
 -001- 02 #& TEST 66
 -001- 03 #& SEGMENT 3
 -001- 04 #& PR CDGMI
 -001- 05 #
 06 # A SERIES OF MISCELLANEOUS CROSSPOINTS WAS TRIED WITH ONE
 07 # SUB-FIELD = 0. THE ER WAS AFFECTED BY THE ZER CROSSPOINT.
 08 #
 09 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
 10 # DECODING OF ZER CROSSPOINT

0014410

-001- 13 #& TBL 6620
 -001- 14 #& TEST 66
 -001- 15 #& SEGMENT 3
 -001- 16 #& PR CDGMI
 -001- 17 #
 18 # THE SDIS OR ENA CROSSPOINT HAS FAILED TO PUT THE I/O DISABLE
 19 # CIRCUIT INTO THE PROPER STATE
 20 #
 21 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 22 # DECODING OF SDIS CROSSPOINT
 23 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
 24 # I/O DIAABLE CIRCUIT AND ENA CROSSPOINT DECODING
 25 # PROC 02-29 FA1035 MAINTENANCE CHANNEL BITS 00-10
 26 # DEDICATED PATH FOR DISABLE CIRCUIT TO MCH
 27 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
 28 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9

0014410

-001- 31 #& TBL 6621
 -001- 32 #& TEST 66
 -001- 33 #& SEGMENT 3
 -001- 34 #& PR CDGMI
 -001- 35 #
 36 # A SERIES OF MISCELLANEOUS CROSSPOINTS WAS TRIED WITH ONE
 37 # SUB-FIELD = 0 AND THE I/O DISABLE CIRCUIT WAS AFFECTED BY THE
 38 # ENA OR ENB CROSSPOINT.
 39 #
 40 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
 41 # DECODING OF ENA OR ENB CRSSPOINT.

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 91

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6801 FLBSPAR

CDGMI W77D

0014410

-001- 01 #& TBL 6801
 -001- 02 #& TEST 68
 -001- 03 #& SEGMENT 1
 -001- 04 #& PR CDGMI
 -001- 05 #
 06 # THE GATING BUS PARITY CIRCUIT HAS EITHER INDICATED AN ERROR WHEN
 07 # ONE DID NOT EXIST OR HAS FAILED TO INDICATE AN EXISTING ERROR
 08 #
 09 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH
 10 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
 11 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
 12 # CONTAINS ERROR DIVERT CIRCUITRY
 13 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
 14 # NOTE--3 CTI 02-02 FA1012 CTI BOARD 2
 15 # PROC 02-34 FA1017 MICRO CONTROL 2

0014410

-001- 18 #& TBL 6802
 -001- 19 #& TEST 68
 -001- 20 #& SEGMENT 2
 -001- 21 #& PR CDGMI
 -001- 22 #
 23 # THE GATING BUS PARITY CIRCUIT HAS EITHER INDICATED AN ERROR WHEN
 24 # ONE DID NOT EXIST OR HAS FAILED TO INDICATE AN EXISTING ERROR
 25 #
 26 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH
 27 # PROC 06-32 FA1019 MICRO CONTROL 4
 28 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD

0014410

-001- 31 #& TBL 6803
 -001- 32 #& TEST 68
 -001- 33 #& SEGMENT 3
 -001- 34 #& PR CDGMI
 -001- 35 #
 36 # THE GATING BUS PARITY CIRCUIT HAS NOT BEEN DISABLED BY A NOP IN
 37 # THE "FROM" FIELD.
 38 #
 39 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 92

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6804 FLPARSTP

CDGMI

W77D

0014410

-001- 01 ## TBL 6804
 -001- 02 ## TEST 68
 -001- 03 ## SEGMENT 3
 -001- 04 ## PR CDGMI
 -001- 05 #
 06 # THE GATING BUS PARITY CIRCUIT HAS NOT BEEN DISABLED WHEN THE
 07 # PROCESSOR WAS STOPPED
 08 #
 09 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

0014410

-001- 12 ## TBL 6805
 -001- 13 ## TEST 68
 -001- 14 ## SEGMENT 3
 -001- 15 ## PR CDGMI
 -001- 16 #
 17 # THE BLOCK PARITY CHECK BIT IN THE SS REGISTER HAS FAILED TO BLOCK
 18 # THE OPERATION OF THE BUS PARITY CHECK CIRCUIT
 19 #
 20 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

0014410

-001- 23 ## TBL 6806
 -001- 24 ## TEST 68
 -001- 25 ## SEGMENT 3
 -001- 26 ## PR CDGMI
 -001- 27 #
 28 # THE GATING BUS PARITY CHECKER HAS NOT BEEN DISABLED BY THE
 29 # FIRING OF A MISCELLANEOUS CROSSPOINT
 30 #
 31 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 93

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6807 FLSDRG

CDGMI W77D

0014410

```

-001- 01  ## TBL 6807
-001- 02  ## TEST 68
-001- 03  ## SEGMENT 3
-001- 04  ## PR CDGMI
-001- 05  #
06 #   THE SDRG "FROM" FIELD CROSSPOINT SHOULD BLOCK THE GATING
07 #   BUS PARITY CHECK IF DR=0. THIS HAS FAILED.
08 #
09 #   PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH
10 #   PROC 02-23 FA1046 DOUBLE STORE READ

```

0014410

```

-001- 13  ## TBL 6808
-001- 14  ## TEST 68
-001- 15  ## SEGMENT 3
-001- 16  ## PR CDGMI
-001- 17  #
18 #   THE SIRC "FROM" FIELD CROSSPOINT SHOULD BLOCK THE GATING
19 #   BUS PARITY CHECK IF DR=0. THIS HAS FAILED.
20 #
21 #   PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

```

0014410

```

-001- 24  ## TBL 6809
-001- 25  ## TEST 68
-001- 26  ## SEGMENT 3
-001- 27  ## PR CDGMI
-001- 28  #
29 #   THE GATING BUS PARITY CIRCUIT HAS NOT BEEN DISABLED BY
30 #   THE PROCESSOR BEING IN THE FREEZE STATE.
31 #
32 #   PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 94

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6810 FLDVRT

CDGMI

W77D

0014410

```

-001- 01 ## TBL 6810
-001- 02 ## TEST 68
-001- 03 ## SEGMENT 4
-001- 04 ## PR CDGMI
-001- 05 #
06 # THE 2/4 CODE B(1001) USED WITH C(A)C(B)=B(11) HAS FAILED TO
07 # PROPERLY DIVERT A BUS PARITY ERROR TO THE IOPARER ERROR
08 # BIT.
09 #
10 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
11 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
12 # CONTAINS ERROR DIVERT CIRCUITRY
13 # PROC 02-32 FA1022 MICRO CONTROL 7
14 # 2/4 DECODER WHICH ACTIVATES DIVERT CIRCUITRY
15 # PROC 06-09 FA1010 GENERAL REGISTERS BITS 0 AND 8
16 # MAINTENANCE STATE TO OVERRIDE LOCK OFF-LINE
17 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
18 # CIRCUITRY TO OVERRIDE LOCK OFF-LINE
19 # PROC 06-31 FA1025 SYSTEM CLOCK
20 # PARTS OF THIS BOARD WHICH CANNOT BE DIRECTLY
21 # TESTED IN TEST 3 ARE FUNCTIONALLY TESTED HERE
22 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL
23 # PROC 06-18 FA1010 GENERAL REGISTERS BITS PL AND PH
24 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9
25 # PROC 06-11 FA1010 GENERAL REGISTERS BITS 2 AND 10
26 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL

```

0014410

```

-001- 29 ## TBL 6901
-001- 30 ## TEST 69
-001- 31 ## SEGMENT 1
-001- 32 ## PR CDGMI
-001- 33 #
34 # BAD PARITY HAS BEEN GENERATED ON THE X FIELD OF THE ID
35 # IN CONJUNCTION WITH TABLE INDEXING ("TX" MISCELLANEOUS
36 # CROSSPOINT) OR THE MAR PARITY CIRCUITRY IN THE MICRO
37 # CONTROL HAS FAILED
38 #
39 # PROC 06-32 FA1019 MICRO CONTROL 4
40 # PROC 06-19 FA1020 MICRO CONTROL 5
41 # PROC 02-31 FA1023 MICRO CONTROL 6

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 95

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6902 FLNCPAR

CDGMI W77D

0014410

-001- 01 # TBL 6902
 -001- 02 # TEST 69
 -001- 03 # SEGMENT 1
 -001- 04 # PR CDGMI
 -001- 05 #
 06 # THE MICROCONTROL PARITY CIRCUITRY HAS FAILED IN
 07 # CONJUNCTION WITH TABLE INDEXING ON THE X FIELD OF THE
 08 # IB ("TX" CROSSPOINT). THE X FIELD PARITY HAS BEEN
 09 # PREVIOUSLY DIAGNOSED. THE PROBLEM IS IN THE MAR PARITY
 10 # CIRCUIT
 11 #
 12 # PROC D6-32 FA1019 MICRO CONTROL 4

0014410

-001- 15 # TBL 6903
 -001- 16 # TEST 69
 -001- 17 # SEGMENT 2
 -001- 18 # PR CDGMI
 -001- 19 #
 20 # BAD PARITY HAS BEEN GENERATED ON THE Y FIELD OF THE IB
 21 # IN CONJUNCTION WITH TABLE INDEXING ("TY" MISCELLANEOUS
 22 # CROSSPOINT) OR THE MAR PARITY CIRCUITRY IN THE MICRO
 23 # CONTROL HAS FAILED
 24 #
 25 # PROC D6-32 FA1019 MICRO CONTROL 4
 26 # PROC D6-19 FA1020 MICRO CONTROL 5
 27 # PROC D2-31 FA1023 MICRO CONTROL 8

0014410

-001- 30 # TBL 6904
 -001- 31 # TEST 69
 -001- 32 # SEGMENT 3
 -001- 33 # PR CDGMI
 -001- 34 #
 35 # THE CHECKER WHICH COMPARES THE IB X AND Y FIELD PARITY
 36 # WITH THE FL BIT HAS EITHER INDICATED A FALSE ERROR OR
 37 # FAILED TO INDICATE AN ERROR
 38 #
 39 # PROC D2-31 FA1023 MICRO CONTROL 8
 40 # PROC D2-31 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
 41 # PROC D2-32 FA1022 MICRO CONTROL 7
 42 # PROC D2-18 FA1024 SPECIAL REGISTERS BITS PL AND PH
 43 # PROC D6-16 FA1010 GENERAL REGISTERS BITS 6 AND 14

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE D4 PAGE 96

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6905 FLP6IB

CDGMI W77D

-001- 01 #8 TBL 6905
 -001- 02 #8 TEST 69
 -001- 03 #8 SEGMENT 3
 -001- 04 #8 PR CDGMI
 -001- 05 #
 06 # THE CHECKER WHICH COMPARES THE IB X AND Y FIELD PARITY
 07 # WITH THE PL BIT HAS FAILED TO INDICATE AN ERROR WHEN
 08 # THE IB WAS LOADED FROM THE BUS
 09
 10 # PROC 02-31 FA1023 MICRO CONTROL 8

0014410

-001- 13 #8 TBL 6906
 -001- 14 #8 TEST 69
 -001- 15 #8 SEGMENT 3
 -001- 16 #8 PR CDGMI
 -001- 17 #
 18 # THE LOAD NEW OP CONDITION HAS FAILED TO BLOCK THE IB PARITY CHECK
 19
 20 # PROC 02-32 FA1022 MICRO CONTROL 7

0014410

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 97

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

6906 FLNOPI

CDGMI

W77D

DD14410

01 END

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 98

22:59:51 2/05/81 金金金金

TROUBLE LOCATION MANUAL

COGMI

W770

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
20013010	S	.STOP		1-08
00002001	A	XBITCNT		1-08
	O	XBOP		
00030131	A	XCHKTX	34-33	36-35
00000001	A	XCLAS		LIBNUM=10
00000001	A	XMAXWRD		LIBNUM=10
'CDGMI'	T	XNAMEX		
00000000	A	XORGZ2		
	J	XOWX	1-10	
	O	XPFIX		
00000000	A	XTA1X	34-17	35-16, 36-04, 37-12
	O	XTCHEADX	1-10	

'PRLINE 1,1,

```

T XUSX
T XUSING12
T XUSING14
0000001 A XNRDCNT LIBNUM=10 1-08
O U A
0000001 O AAX 1-08
O U AAAA
O U ABCD
S R AK
LIBNUM=10 50-43, 52-09
0000234 A AKXF 7-48
0000234 A AKKT LIBNUM=10 50-34, 51-49
O U AR
O U AO
O U A7300
O U B
O U BBX 1-08
07 0013732 L BDRFMFLD 12-39 12-21
07 0013725 L BDTOFLO 12-32
17 R BIN S=2 LIBNUM=10
07 0014422 D BPALP1 46-37 46-36
07 0014456 O BPALP2 48-03 48-04
07 0014513 D BPALP3 50-18 50-19
07 0014547 O BPALP4 51-33 51-34
17 R BFC S=22 LIBNUM=10
O U DR
0000342 A BRXF LIBNUM=10 8-27, 16-11

```

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

COGMI

ISSUE 04

PAGE 99

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	W77D
0145312	A	BRXMSX		78-05		
07 0013417	L	BRXTI	35-19	LIBNUM=10 15-33		
0154066	A	BRXTIX		35-08		
				LIBNUM=10 35-30		
#	P					
ROC 06-18						
FA1010		GENE				
RAL		REGISTER				
S BITS PL AN						
D PH'						
#	P					
ROC 06-09						
FA1010		GENE				
RAL		REGISTER				
S BITS 0 AND						
8'						
#	P					
ROC 06-10						
FA1010		GENE				
RAL		REGISTER				
S BITS 1 AND						
9'						
#	P					
ROC 06-11						
FA1010		GENE				
RAL		REGISTER				
S BITS 2 AND						
10'						
#	P					
ROC 06-12						
FA1010		GENE				
RAL		REGISTER				
S BITS 3 AND						
11'						
#	P					
ROC 06-13						
FA1010		GENE				
RAL		REGISTER				
S BITS 4 AND						
12'						
#	P					
ROC 06-14						
FA1010		GENE				
RAL		REGISTER				
S BITS 5 AND						
13'						
#	P					
ROC 06-16						
FA1010		GENE				

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 100

22:59:51 2/05/81 ****

TROUBLE LOCATION MANUAL

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
RAL REGISTER S BITS 6 AND '14'	P	T BS00614		LIBNUM=6
ROC 06-17 FA1010 GENE RAL REGISTER S BITS 7 AND '15'	P	T BS00715		LIBNUM=6
ROC 02-18 FA1024 SPEC IAL REGISTER S BITS PL AN D PH'	P	T BS1PLPH		LIBNUM=6
ROC 02-08 FA1024 SPEC IAL REGISTER S BITS 0 AND '8'	P	T BS10008		LIBNUM=6
ROC 02-09 FA1024 SPEC IAL REGISTER S BITS 1 AND '9'	P	T BS10109		LIBNUM=6
ROC 02-10 FA1024 SPEC IAL REGISTER S BITS 2 AND '10'	P	T BS10210		LIBNUM=6
ROC 02-11 FA1024 SPEC IAL REGISTER S BITS 3 AND '11'	P	T BS10311		LIBNUM=6
ROC 02-12 FA1024 SPEC IAL REGISTER S BITS 4 AND '12'	P	T BS10412		LIBNUM=6
ROC 02-13 FA1024 SPEC IAL REGISTER				

CDGMI

W770

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 101

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
S BITS 5 AND 13	T	BS10513		LIBNUM=6
ROC 02-16 FA1024 SPEC IAL REGISTER	P			
S BITS 6 AND 14	T	BS10614		LIBNUM=6
ROC 02-17 FA1024 SPEC IAL REGISTER	P			
S BITS 7 AND 15	T	BS10715		LIBNUM=6
ROC 02-19 FA1030 MISC . DEC. - REG	P			
ISTERS BITS 16 AND 18	T	BS1618		LIBNUM=6
ROC 02-20 FA1030 MISC . DEC. - REG	P			
ISTERS BITS 17 AND 19	T	BS1719		LIBNUM=6
17 R BTC			S=3 LIBNUM=10	38-23
12 R BUSER			S=3 LIBNUM=10	47-30, 48-44, 51-14, 52-25, 54-04, 54-37, 55-45, 57-13, 58-20, 59-14, 63-10
0000104 A BUSPAR			LIBNUM=11	43-06
0 U BO				
0 U C				
07 0014411 L CBUSPAR			1-36 44-14	
17 R CC			S=14 LIBNUM=10	
0 U CC03				
ROC 06-31 FA1025 SYST	P			
EM CLOCK	T	CLK		LIBNUM=6
0113401 L CLR ABT			36-39 36-28	
07 0013611 L CMINTERP			1-34 6-14	
07 0012667 L CMINTSCKP			1-35 14-11	
0000006 A COUNT			6-11 LIBNUM=11	14-11, 44-11, 64-11, 81-01, 81-03, 81-20, 82-01, 82-20, 82-31, 83-01, 83-20, 84-01, 84-17, 85-01, 85-14, 85-28, 86-01, 86-14, 86-27, 87-13, 88-01, 88-17, 89-01, 89-14, 89-27, 90-01, 90-23, 91-01, 91-13, 91-31, 91-42, 92-01, 92-18, 92-31, 93-01, 93-12, 93-23, 94-01, 94-13, 94-24, 95-01, 95-27, 95-29, 96-01, 96-15, 96-30, 97-01, 97-13
0111432 L CPATCH			1-42	
0112562 L CPATCH1			1-43 34-33, 36-35	
0114107 L CPATCH2			1-44	

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-30

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 102

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	
0115073	L	CPATCH3	1-45		
0121236	L	CPATCH7	1-46		
07 0013761	L	CPOXYPAR	1-37	64-11	
0000063	A	CRXT		LIBNUM=10	16-11
'#	P				
ROC 06-06					
FA1034	CONS				
OLE AND STAT					
US PANEL INT					
ERFACE'	T	CSSPITRF		LIBNUM=6	
'# NOTE--3	C				
TI 02-02					
FA1212	CTI			LIBNUM=6	
BOARD 2'	T	CTI2			
'# NOTE--3	C				
TI 02-06					
FA1213	CTI			LIBNUM=6	
BOARD 3'	T	CTI3			
'# NOTE--3	C				
TI 02-10					
FA1211	CTI			LIBNUM=6	
BOARD 4'	T	CTI4			
	O	U CO			
	O	U C8E00			
	O	U D			
0000000	A	DATAND	6-11	14-11, 44-11, 64-11	
0000251	A	DBZF		LIBNUM=10	25-39
0000251	A	DBXT		LIBNUM=10	19-29
0	R	DISAB	S=7	LIBNUM=10	32-47, 40-05, 41-43, 42-34
'# NOTE--3	D				
NA 02-19					
FC385	DMA				
ADD ONE CIRC					
UIT'	T	DMAADD1		LIBNUM=6	
'# NOTE--3	D				
NA 02-26					
FC387	DMA				
CONTROL CIRC					
IUT'	T	DMAADCTL		LIBNUM=6	
'# NOTE--3	D				
NA 02-03					
FB6	FUSE				
BOARD-STORE					
ERROR AND P					
ARITY'	T	DMAFUS3		LIBNUM=6	
'# NOTE--3	D				
NA 02-21					
FC390	DMA				
STATUS BOARD					

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGHI ISSUE 04 PAGE 103

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	W77D
1'						
'# NOTE--3 D						
MA 02-24						
FC391 DMA						
STATUS BOARD						
2'						
'# NOTE--3 D						
MA 02-12						
FB382 DMA						
REGISTER BIT						
S 2, 6, 10,						
14'						
'# NOTE--3 D						
MA 02-10						
FC382 DMA						
REGISTER BIT						
S 3, 7, 11,						
15'						
'# NOTE--3 D						
MA 02-08						
FC384 DMA						
REGISTER BIT						
S PL, PH'						
'#						
ROC 06-26						
FA1015 DMLO						
ROTATE AND						
PARITY GENER						
ATOR'						
'#						
ROC 06-27						
FA1012 DMLO						
BITS 00-07'						
'#						
ROC 06-25						
FA1012 DMLO						
BITS 08-15'						
'#						
ROC 06-28						
FA1014 DMLO						
BITS 16-19'						
'#						
ROC 06-23						
FA1015 DML1						
ROTATE AND						
PARITY GENER						
ATOR'						
'#						

MICRO INTERPRET,MULTI CROSSPOINT,AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 104

22:59:51 2/05/81 ****

TROUBLE LOCATION MANUAL

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGHI	W77D
ROC 06-24						
FA1012 DML1						
BITS 00-07	T	DML10007		LIBNUM=6		
'#	P					
ROC 06-22						
FA1012 DML1						
BITS 08-15	T	DML10815		LIBNUM=6		
'#	P					
ROC 06-21						
FA1013 DML1						
BITS 16-19	T	DML11619		LIBNUM=6		
CDGNOF	V	DOTIO	5-11	62-40		
'#	P					
ROC 02-23						
FA1046 DOUB						
LE STORE REA						
D						
	T	DSR		LIBNUM=6		
	O	U DO				
	O	U E				
0035072	A	ENAX		LIBNUM=10	29-23, 41-22	
07 0013536	D	ENALP	40-28	40-29		
0035071	A	ENBX		LIBNUM=10	29-29	
07 0013571	D	ENBLP	42-10	42-11		
0000252	A	ERXT		LIBNUM=10	38-48	
'#	P					
ROC 10-22						
FA1028 ERRO						
R REG/DISPLA						
Y BUFFER HIG						
H BITS	T	ERNL1910		LIBNUM=6		
07 0013504	D	ERLP	39-03	39-04		
'#	P					
ROC 10-23						
FA1027 ERRO						
R REG/DISPLA						
Y BUFFER LOW						
BITS	T	ER0900		LIBNUM=6		
	O	J ESS2	1-10			
	1	J ESS2E	1-09			
	O	U EO				
	O	U F				
	O	J FACTORY	1-26			
CDGNOF	V	FAILOFF	3-41			
	O	U FFF				
	O	U FFFF				
	1	J FIELD	1-09			
0000002	A	FLBPAR	92-18	51-24, 52-35, 92-18		
0000007	A	FLBRMHS	85-28	23-39, 85-28		
0000001	A	FLBSPAR	92-01	47-40, 49-05, 92-01		

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGHI ISSUE 04 PAGE 105

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
0000022	A	FLBTC	90-23	38-30, 90-23
0000013	A	FLCHTNMC	87-13	25-33, 87-13
0000004	A	FLCNTIB	82-20	11-40, 82-20
0000024	A	FLDISAB	91-13	40-12, 40-24, 41-38, 42-05, 91-13
0000010	A	FLDML1CR	86-01	24-06, 86-01
0000012	A	FLDVRT	95-01	61-28, 63-17, 63-29, 95-01
0000025	A	FLFASB	91-31	41-16, 42-41, 91-31
0000016	A	FLFEX	89-01	32-16, 89-01
0000004	A	FLIBCK	96-30	73-49, 75-36, 96-30
0000011	A	FLIODR11	86-14	24-23, 86-14
0000002	A	FLMCPAR	96-01	68-26, 96-01
0000001	A	FLMCSO	83-01	21-37, 83-01
0000015	A	FLMCS1	88-17	31-43, 88-17
0000005	A	FLMI	85-01	23-05, 85-01
0000001	A	FLMICNTL	81-03	9-21, 81-03
0000003	A	FLMIGTFM	82-01	9-33, 82-01
0000002	A	FLMISTTO	81-20	9-27, 81-20
0000006	A	FLMISC	93-23	57-20, 93-23
0000006	A	FLNOPI	97-13	78-41, 97-13
0000005	A	FLPARBPC	93-12	56-05, 93-12
0000011	A	FLPARFRZ	94-24	
0000003	A	FLPARNOP	92-31	54-11, 92-31
0000004	A	FLPARSTP	93-01	54-44, 93-01
0000005	A	FLPGIB	97-01	77-22, 97-01
0000012	A	FLRAIO	86-27	24-46, 86-27
0000014	A	FLSDB	88-01	26-06, 88-01
0000020	A	FLSDIS	89-27	33-05, 89-27
0000007	A	FLSDRC	94-01	58-27, 94-01
0000017	A	FLSIBSIR	89-14	32-38, 89-14
0000010	A	FLSIRC	94-13	59-21, 94-13
0000006	A	FLSTP	85-14	23-17, 85-14
0000021	A	FLTIJ	90-01	
0000001	A	FLXPAR	95-29	67-13, 95-29
0000003	A	FLYPAR	96-15	70-40, 96-15
0000023	A	FLZER	91-01	39-34, 91-01
07 0013666	L	FMBDGT	9-29	12-42
		0 U FR		
		16 R FREEZ	S=6	LIBNUM=10
		12 R FRMDER	S=1	LIBNUM=10
		0 U FO		12-20, 12-30
		0 U F1100		
#		P		
ROC 06-20				
FA1026 GATI				
NG BUS PARIT				
T CHECK AND				
DML WATCH		T GBP	LIBNUM=6	
07 0013737	L	G0SE62	13-01	9-15
0000306	A	IBXF	LIBNUM=10	31-49

CDGMI

W77D

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGMI

ISSUE 04

PAGE 106

22:59:51 2/05/81 ****

TROUBLE LOCATION MANUAL

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
0000306	A	IBXT	LIBNUM=10	28-41, 66-21, 67-48, 69-47, 76-36, 77-05, 78-05
12	R	IBER	S=2 LIBNUM=10	73-39, 75-26, 77-14, 78-34
'ILLEGAL CON				
DITION/PL IN				
THE IF MACRO T IFERROR1				
'DATA > 0 OR				
DATA < 0 IS				
MEANINGLESS				
, USE DATA =				
= 0' T IFERROR2				
'TWO CONSTAN				
TS ARE BEING				
COMPARED IN				
IF MACRO' T IFERROR3				
'AN ITEM WAS				
COMPARED TO				
SOMETHING O				
THER THAN A				
CONSTANT' T IFERROR4				
'DESTINATION				
OF AN = STA				
TEMENT IS A				
CONSTANT' T IFERROR5				
'ATTEMPTING				
TO SET ITEM				
= TO SOMETHI				
NG OTHER THA				
N A CONSTANT' T IFERROR6				
'ITEM MAY ON				
LY USE THE =				
AND = COND				
ITIONAL3' T IFERROR7				
0000207 A IMXT				
O J INTERDATA				
1-26				
3-38 12-27, 12-37, 12-43, 13-07				
CDGNI	X	INTRPNO3	LIBNUM=10	24-29, 25-11
0025466	A	IODXR11X		
'#				
P				
ROC 10-04				
FA1039 I/O				
CHAN O CONTR				
OL' T IOD00				
12 R IOPARER				
P				
'#				
P				
ROC 10-03				
FA1038 I/O				
CHAN O CONTR				
OL' T IOD00				
LIBNUM=6				
LIBNUM=10				
61-21, 63-22				
0000071 A IS_SXT				
LIBNUM=6				
LIBNUM=10				
16-35				
0113371 L LD_BR				
34-37 34-24				

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET

CDGNI

ISSUE 04

PAGE 107

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	H770
07 0014220	D	LDIBLP1	72-26	72-27		
07 0014264	D	LDIBLP2	74-13	74-14		
0000000	A	LPINDX	8-05	8-08, 9-01, 9-04, 11-30, 11-33, 21-25, 21-28, 21-43, 21-46, 22-11, 22-14, 22-27, 22-30, 22-43, 22-46, 23-07, 23-10, 23-29, 23-32, 23-45, 23-48, 24-13, 24-16, 24-36, 24-39, 25-23, 25-26, 25-45, 25-48, 31-33, 31-36, 32-06, 32-09, 32-28, 32-31, 32-44, 32-47, 36-17, 36-20, 38-20, 38-23, 39-24, 39-27, 40-02, 40-05, 40-14, 40-17, 41-06, 41-09, 41-28, 41-31, 41-40, 41-43, 42-31, 42-34, 47-27, 47-30, 48-41, 48-44, 51-11, 51-14, 52-22, 52-25, 54-01, 54-04, 54-34, 54-37, 55-42, 55-45, 57-10, 57-13, 58-17, 58-20, 59-11, 59-14, 61-18, 61-21, 63-07, 63-10, 63-19, 63-22, 66-37, 66-40, 68-15, 68-18, 70-15, 70-18, 73-36, 73-39, 75-23, 75-26, 77-11, 77-14, 78-31, 78-34		
07 0014332	D	LPLOIB3	76-11	76-12		
07 0014332	D	LPSTART	20-04	21-09, 30-09, 31-13, 34-47, 36-47, 37-44, 38-13, 39-04, 39-17, 40-29, 40-48, 42-11, 42-24, 46-38, 47-45, 48-04, 49-10, 50-19, 51-29, 51-34, 52-40, 65-44, 67-18, 67-36, 68-31, 69-21, 70-45, 72-27, 74-09, 74-14, 75-45, 76-12, 77-27		
		12 R HARER	S=5	LIBNUM=10		
		H		66-40, 68-18, 70-18		
ASCM 08-04						
FA1060	MAIN					
STORE CONTR						
OLLER - BITS						
2 810'	T	MASCB52		LIBNUM=6		
	3	MCHB		LIBNUM=10		
0000231	A	MCHBXF		12-16		
				16-23, 16-35, 16-47, 19-17, 19-29, 29-05, 29-41, 37-38, 38-48, 46-33, 47-05, 48-19, 50-34, 51-49, 55-13, 56-21, 60-30, 61-40, 65-33, 66-21, 67-48, 69-47, 73-18, 73-30, 75-05, 75-17, 77-05, 78-25		
0000231	A	MCHBXT		LIBNUM=10		
				7-48, 8-45, 11-28, 23-23, 24-11, 24-34, 25-16, 25-39, 31-49, 32-22, 36-11		
ROC 02-29	P					
FA1035	MAIN					
TENANCE CHAN						
NEL BITS 00-10'	T	MCH0010		LIBNUM=6		
ROC 02-34	P					
FA1017	MICR					
0 CONTROL 2'	T	MC2		LIBNUM=6		
ROC 02-33	P					
FA1018	MICR					
0 CONTROL 3'	T	MC3		LIBNUM=6		
ROC 06-32	P					
FA1019	MICR					
0 CONTROL 4'	T	MCA		LIBNUM=6		
ROC 06-19	P					
FA1020	MICR					
0 CONTROL 5'	T	MC5		LIBNUM=6		

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 108

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	W77D
ROC 06-35						
FA1021	MICR					
0	CONTROL 6'	T MC6		LIBNUM=6		
#	P					
ROC 02-32						
FA1022	MICR					
0	CONTROL 7'	T MC7		LIBNUM=6		
#	P					
ROC 02-31						
FA1023	MICR					
0	CONTROL 8'	T MC8		LIBNUM=6		
0164066	A	MD0IDCHX		LIBNUM=10	18-20, 62-16	
0164074	A	MD3CHCX		LIBNUM=10	62-28	
0074066	A	MD4STCHX		LIBNUM=10	18-14	
0074071	A	MD5EIOSX		LIBNUM=10	25-05	
0074072	A	MD6RAIOX		LIBNUM=10	18-33, 62-22	
17	R	MINT		S=13 LIBNUM=10	22-46	
0000101	A	MINTERP		LIBNUM=11	5-13	
#	P					
ROC 02-25						
FA1032	MISC					
ELLANEUS CI						
RCUIT BOARD	T	MISC		LIBNUM=6		
07 0013007	D	MISCLP1	20-03	20-04		
07 0013272	D	MISCLP2	30-08	30-09		
CDGNOF	V	MISTT1	5-08	7-38		
CDGNOF	V	MISTT1A	5-09	8-36		
CDGNOF	V	MISTT2	5-10	11-19		
0000232	A	MSXT		LIBNUM=10	23-23	
0000215	A	MSXT		LIBNUM=10	29-05, 60-30, 61-40, 65-33, 73-30, 75-17	
#	P					
ROC 02-21						
FA1029	MAIN					
STORE CONTR						
OL 0'	T	MSTCONTO		LIBNUM=6		
#	P					
ROC 02-22						
FA1029	MAIN					
STORE CONTR						
OL 1'	T	MSTCONT1		LIBNUM=6		
0000102	A	MTMSCXP		LIBNUM=11	13-09	
CDGNM	V	NABT	3-31	35-03, 36-42		
CDGNM	V	NADD OFF	3-22	7-37, 8-35, 11-18, 53-36, 62-39		
CDGNM	V	NADIC	3-25			
CDGNM	V	NBEGIN	3-28	20-03, 30-08, 34-46, 37-43, 39-03, 40-28, 42-10, 46-37, 48-03, 50-18, 51-33, 65-43, 67-35, 69-20, 72-26, 74-13, 76-11		
CDGNM	V	NBGN	3-39	6-17, 14-14, 44-17, 64-14		
CDGNM	V	NCLRMS	3-33	74-04, 75-40		
CDGNM	V	NCOMPARE	3-26	8-08, 9-04, 11-33, 21-28, 21-46, 22-14, 22-30, 22-46, 23-10, 23-32, 23-48, 24-16, 24-39,		

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 109

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	W77D
				25-26, 25-48, 31-36, 32-09, 32-31, 32-47, 36-20, 38-23, 39-27, 40-05, 40-17, 41-09, 41-31, 41-43, 42-34, 47-30, 48-44, 51-18, 52-25, 54-04, 54-37, 55-45, 57-13, 58-20, 59-14, 61-21, 63-10, 63-22, 66-40, 68-18, 70-18, 73-39, 75-26, 77-14, 78-34		
CDGMM	V	NDISABA	3-07			
CDGMM	V	NDISABB	3-08			
CDGMM	V	NEXECUTE	3-25			
CDGMM	V	NFAILTST	3-16			
				47-13, 48-27, 50-42, 52-08, 55-28, 56-41, 58-03, 58-44, 61-03		
				9-20, 9-26, 9-32, 11-39, 21-36, 22-04, 22-20, 22-30, 23-04, 23-16, 23-38, 24-05, 24-22, 24-45, 25-32, 26-05, 31-42, 32-15, 32-37, 33-04, 38-29, 39-33, 40-11, 40-38, 41-15, 41-37, 42-04, 42-40, 47-39, 49-04, 51-23, 52-34, 54-10, 54-43, 56-04, 57-19, 58-26, 59-20, 61-27, 63-16, 63-28, 67-12, 68-25, 70-39, 73-48, 75-35, 77-21, 78-40		
CDGMM	V	NFLBITS	3-37			
CDGMM	V	NFRZ	3-27	19-35, 67-30		
07 0013662	L	NGMI	9-17	12-26		
CDGMM	V	NLDMR	3-24	17-45		
CDGMM	V	NLP_END	3-29	21-08, 31-12, 36-46, 38-12, 39-16, 40-47, 42-23, 47-44, 49-09, 51-28, 52-39, 67-17, 68-30, 70-44, 74-08, 75-44, 77-26		
CDGMM	V	NMASK	3-18	21-22, 25-20, 31-30		
CDGMM	V	NMICRO	3-02	7-47, 8-20, 8-26, 15-32, 16-10, 16-22, 16-34, 16-46, 17-04, 17-10, 17-16, 17-22, 17-28, 17-34, 17-40, 18-13, 18-19, 18-32, 18-45, 19-04, 19-16, 19-28, 20-08, 23-22, 24-26, 25-04, 25-10, 25-38, 27-22, 27-28, 27-34, 27-40, 27-46, 28-04, 28-10, 28-16, 28-22, 28-26, 28-34, 28-40, 29-04, 29-10, 29-16, 29-22, 29-28, 29-40, 30-12, 31-48, 32-21, 35-23, 35-29, 35-39, 36-10, 37-37, 38-03, 38-47, 39-07, 39-41, 40-33, 40-38, 41-21, 42-14, 46-32, 47-04, 48-18, 50-33, 51-48, 55-12, 56-20, 60-29, 61-39, 62-15, 62-21, 62-27, 65-32, 65-38, 66-20, 66-30, 67-47, 68-08, 69-46, 70-08, 72-31, 72-37, 72-43, 73-17, 73-29, 74-18, 74-24, 74-30, 75-04, 75-16, 76-06, 76-17, 76-23, 76-29, 76-35, 77-04, 77-33, 77-39, 77-45, 78-04, 78-12, 78-24,		
CDGMM	V	NNO3CD	3-34	8-14, 9-09, 9-14		
CDGMM	V	NPASSTST	3-19	11-44, 42-46, 43-04, 63-33, 78-45		
CDGMM	V	NPROS	3-14	37-26		
CDGMM	V	NRDIMCRO	3-32			
CDGMM	V	NRESCLK	3-12			
CDGMM	V	NRETAN	3-03	8-03, 21-41, 22-09, 22-25, 23-27, 23-43, 25-43, 32-04, 32-26, 36-15, 39-22, 47-25, 48-39, 51-09, 52-20, 53-45, 54-32, 55-40, 57-08, 58-15, 59-09, 61-15, 63-03, 66-35, 68-13, 70-13, 73-34, 75-21, 77-09, 78-29		
CDGMM	V	NRTNBLM	3-45	38-35		
CDGMM	V	NSEND	3-20	7-27, 15-26, 15-38, 15-44, 16-04, 16-16, 16-28, 16-40, 18-04, 18-25, 18-38, 19-10, 19-22, 29-34, 34-41, 37-31, 38-41, 46-26, 53-26, 55-06, 56-14, 56-31, 57-45, 61-33, 62-08, 65-48, 67-40, 69-25, 73-23, 75-10		
CDGMM	V	NSKIP	3-30	34-23, 35-07, 36-27, 37-03		
CDGMM	V	NSTOP	3-06	7-42, 8-40, 11-23, 47-21, 48-35, 51-05, 52-16, 53-41, 54-17, 55-36, 56-09, 57-04, 57-24, 58-11, 58-31, 59-05, 59-25, 61-11, 62-44, 69-16, 71-03		
CDGMM	V	NSTPCLK	3-10			
CDGMM	V	NSTRT	3-05			
CDGMM	V	NSTRCLK	3-09			
CDGMM	V	NTESTSEG	3-15	7-08, 11-08, 15-08, 27-08, 34-08, 46-08, 50-08, 53-08, 60-08, 65-08, 69-08, 72-08		
CDGMM	V	NTCKTEST	3-11			
CDGMM	V	NTMTEST	3-35			
CDGMM	V	NTTY	3-17			
0000000	A	NUM	5-13	13-09, 20-04, 21-10, 30-09, 31-14, 34-47, 36-48, 37-44, 38-14, 39-04, 39-18, 40-29, 40-49,		

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 110

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	W770
				42-11, 42-25, 43-06, 46-38, 47-46, 48-04, 49-11, 50-19, 51-30, 51-34, 52-41, 64-01, 65-44, 67-19, 67-36, 68-32, 69-21, 70-46, 72-27, 74-10, 74-14, 75-46, 76-12, 77-28		
CDGNN	V	NVDST	3-46			
CDGNN	V	NZEROT_ER	3-13	7-33, 8-31, 47-09, 48-23, 50-38, 52-04, 53-32, 54-21, 55-24, 56-37, 57-33, 58-40, 60-44, 62-32, 66-25, 68-03, 70-03, 73-03, 74-39, 76-40		
CDGNN	V	NZERPT	3-36	37-18		
CDGNN	V	NZRETRN	3-04	8-44, 11-27, 21-18, 22-41, 24-10, 24-33, 25-15, 31-26, 32-42, 38-18, 39-49, 41-04, 41-26, 42-29		
CDGNN	V	NZSEND	3-21	28-46, 46-43, 48-09, 50-24, 51-39, 54-26, 55-18, 60-22, 60-38, 61-48, 65-24, 73-08, 74-40, 76-45, 78-18		
	V	OBUSPAR	44-19	44-18		
	V	OMINTERP	6-19	6-18		

t.<(AON
XS*)
S/
X>
;#0'L" ab
cdefghl.n<
t jklmnopqr
x) s--stuvw
xyz+L{p=012
3456789+q_j#
-CIBCLEFGHI
J,K,L,M,N,O
P,Q,R
LLLWLYZ
0123456789

T OPTR
0000250 A ORG_000523 34-17
0000265 A ORG_000530 35-16
0000274 A ORG_000547 36-04
0000313 A ORG_000562 37-12
0000255 A ORG_000607 34-37
0000304 A ORG_000617 36-39
16 R OVLOF S=0 LIBNUM=10
CTSD 5-01 57-47, 58-45
0000002 A PARITY 7-24 15-23, 19-35, 15-41, 16-01, 16-13, 16-25, 16-37, 18-01, 18-22, 18-35, 19-07, 19-19, 28-43,
29-31, 34-38, 37-28, 38-38, 46-23, 46-40, 48-06, 50-21, 51-36, 53-23, 54-23, 55-03, 55-15,
56-11, 56-28, 57-35, 57-42, 60-19, 60-35, 61-30, 61-45, 62-05, 65-21, 65-45, 67-37, 69-22,
73-05, 73-20, 74-37, 75-07, 76-42, 78-15

CDGNOF V PASSOFF 3-40
CDGMI T PNAME
0000105 A POXYPAR LIBNUM=11 64-01

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 111

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	W770
07 0014750	L	PRESLOC	47-14	48-28, 50-43, 52-09, 55-29, 56-42, 58-04, 58-45, 61-04		
0000042	A	PTPN11		LIBNUM=10		
#						
ROC 02-24						
FAI033		PROG				
RAM TIMER/TI						
MING COUNTER	T	PTTC		LIBNUM=6		
14	P	RAD		LIBNUM=3		
07 0013705	L	RESM1	12-01	8-15, 9-10		
0000002	A	ROTRAD	83-20	22-05, 83-20		
0000003	A	ROTB0	84-01	22-21, 84-01		
0000004	A	ROTT1	84-17	22-37, 84-17		
07 0013451	L	RT_BRK	37-15	37-04		
'DGMI'	T	RTNAME				
0000213	A	RTNER		LIBNUM=10		
0	R	RD		12-13		
				LIBNUM=3		
				12-13, 12-26, 12-36, 12-42, 13-06, 47-14, 48-28, 50-43, 52-09, 55-29, 56-42,		
				58-04, 58-45, 61-04		
0000123	A	ROXF		LIBNUM=10		
0000123	A	ROXT		LIBNUM=10		
1	R	R1		11-28		
12	R	R10		LIBNUM=10		
0000152	A	R10XF		LIBNUM=10		
0000152	A	R10XT		LIBNUM=10		
13	R	R11		LIBNUM=3		
0000154	A	R11XF		LIBNUM=10		
0000154	A	R11XT		LIBNUM=10		
14	R	R12		LIBNUM=3		
0000107	A	R12XT		LIBNUM=10		
15	R	R13		LIBNUM=3		
0000113	A	R13XT		LIBNUM=10		
3	R	R3		LIBNUM=3		
6	R	R6		LIBNUM=3		
0000143	A	R6XF		LIBNUM=10		
0000143	A	R6XT		LIBNUM=10		
11	R	R9		LIBNUM=3		
0000151	A	R9XT		LIBNUM=10		
0023712	A	SBRX		LIBNUM=10		
0025471	A	SBTCX		LIBNUM=10		
0036071	A	SCFX		LIBNUM=10		
0016471	A	SDISX		LIBNUM=10		
0015471	A	SDRX		LIBNUM=10		
0146071	A	SDSX		LIBNUM=10		
07 0013670	L	SEG2	10-01	13-06		
0	R	SENAB		S=6 LIBNUM=10		
0000753	A	SERNO_049321	80-02	40-17, 41-09, 41-31		
0015730	A	SIX		LIBNUM=10		
0000342	A	SIBXT		LIBNUM=10		
0144474	A	SIBXSXR1X		LIBNUM=10		
0000036	A	SIRXT		LIBNUM=10		

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 112

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CDGMI	W77D
0000035	A	SIR1XF		LIBNUM=10 32-22		
CDGNM	V	SIDMCHBF	3-42			
CDGNM	V	SIDMIRLF	3-43			
CSYSUB	V	SMCH	12-14	12-15		
CDGNM	V	SMCHF	3-44			
0036330	A	SOPFX		LIBNUM=10 17-05		
0000216	A	SS_RXT		LIBNUM=10 16-23, 29-41, 37-38, 46-33, 56-21		
0000213	A	SS_SXT		LIBNUM=10 19-17, 55-13		
17	R	STP		S=16 LIBNUM=10 23-10		
0145071	A	STR1X		LIBNUM=10 27-47		
0144471	A	STR2X		LIBNUM=10 28-05		
0000000	A	SUCCESS	8-05	8-08, 9-01, 9-04, 11-30, 11-33, 21-25, 21-28, 21-43, 21-46, 22-11, 22-14, 22-27, 22-30, 22-43, 22-46, 23-07, 23-10, 23-29, 23-32, 23-45, 23-48, 24-13, 24-16, 24-36, 24-39, 25-23, 25-26, 25-45, 25-48, 31-33, 31-36, 32-06, 32-09, 32-28, 32-31, 32-44, 32-47, 36-17, 36-20, 38-20, 38-23, 39-24, 39-27, 40-02, 40-03, 40-14, 40-17, 41-06, 41-09, 41-28, 41-31, 41-40, 41-43, 42-31, 42-34, 42-37, 47-30, 48-41, 48-44, 51-11, 51-14, 52-02, 52-25, 54-01, 54-04, 54-34, 54-37, 55-42, 55-45, 57-10, 57-15, 58-17, 58-20, 59-11, 59-14, 61-18, 61-21, 63-07, 63-10, 63-19, 63-22, 66-37, 66-40, 68-15, 68-18, 70-15, 70-18, 73-36, 73-39, 75-23, 75-26, 77-11, 77-14, 78-31, 78-34		
0000000	A	SV_REG				
0000105	A	TESTNO	5-13	13-09, 43-06, 64-01, 81-01, 82-31, 91-42, 95-27		
0116774	L	TFAPCH2	2-01			
0000223	A	TXF		LIBNUM=10 36-11		
0113374	D	TIMLP1	34-46	34-47		
07 0013460	D	TIMLP2	37-43	37-44		
0000101	A	TLNFRST	5-01	5-13, 81-01		
07 0013664	L	TODDGT	9-23	12-36		
12	R	TOER		S=0 LIBNUM=10 12-17		
07 0013723	L	TOER	12-29	12-18		
0600000	L	TPATCH	2-03			
0000753	A	TR_013323	80-02			
0000313	A	TR_13323	34-17	34-37, 35-16, 36-04, 36-39, 37-12		
07 0013451	L	TRORG	34-17	35-16, 36-04, 37-12		
CDGNM	V	TSTNOP	5-12	53-37		
07 0013772	D	TSTXLP	65-43	65-44		
07 0014072	D	TSTXLP2	67-35	67-36		
07 0014120	D	TSTYLP	69-20	69-21		
0144750	A	TXK		LIBNUM=10 66-31, 68-09		
'3'		TXTSEG				
0145350	A	TYX		LIBNUM=10 70-09		
V	XBUSPAR		44-19	44-10		
V	XHINTERP		6-19	6-18		
0025712	A	ZBRX		LIBNUM=10 8-21, 28-17, 72-38, 74-25, 76-24, 77-40		
0036072	A	ZCFX		LIBNUM=10 27-23		
0015472	A	ZDRX		LIBNUM=10 17-29, 65-39, 76-07, 76-18, 77-34		
0146072	A	ZDSX		LIBNUM=10 17-17		
0025750	A	ZERX		LIBNUM=10 19-05		
0145330	A	ZIX		LIBNUM=10 17-23		
0146330	A	ZOPFX		LIBNUM=10 28-11		

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1c930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04 PAGE 113

TROUBLE LOCATION MANUAL

22:59:51 2/05/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES		CDGMI	W77D
0145072	A	ZTR1X		LIBNUM=10	17-35		
0144472	A	ZTR2X		LIBNUM=10	17-41		
	O	V 000C4					
	O	V 000E7					
	O	V 0008E					
	O	V 0009D					
	O	V 1C0F					
	O	V 1C76					
07 0013716	L	20R0	12-22 12-31				
	I	J 3ACC	1-09				
	O	V 3C400					
	O	V 3FFC					
	O	V 4EF00					
	O	V 59000					

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI ISSUE 04 PAGE 114

TROUBLE LOCATIO: MANUAL

22:59:51 2/05/81 ****

COUNT FLAG

PAGE-LINE OF FLAG

CDGMI

W77D

2 E

50-43, 52-09

2 FLAG(S) FOUND IN THIS ASSEMBLY

MICRO INTERPRET, MULTI CROSSPOINT, AND PARITY CHK TESTS

PR-1C930-50

22:59:51 2/05/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CDGMI

ISSUE 04

PAGE 115

